

SPECTRUM[®]

Division

**GRADE
4**



Focused Practice to Master Division

- Builds a foundation in dividing up to four digits by one digit
- Step-by-step examples introduce new concepts
- Pretests and Posttests to measure progress
- Includes problem solving and critical thinking exercises



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Division

Grade 4

Spectrum®
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Spectrum Division is designed to build a solid foundation in division for your fourth grader. Aligned to the fourth grade Common Core State Standards for division, every page equips your child with the confidence to master division. Helpful examples provide step-by-step guidance to teach new concepts, followed by a variety of practice pages that will sharpen your child's skills and efficiency at problem solving. Use the Pretests, Posttests, Mid-Test, and Final Test as the perfect way to track your child's progress and identify where he or she needs extra practice.

Common Core State Standards Alignment: Division Grade 4

Domain: Operations and Algebraic Thinking	
Standard	Aligned Practice Pages
3.OA.2	29, 30–31, 33, 36, 38, 81
3.OA.3	25–36, 38, 67–76, 80–82
4.OA.5	13, 17, 21, 23, 34, 79
Domain: Number and Operations in Base Ten	
Standard	Aligned Practice Pages
4.NBT.1	39, 62–63, 66, 71, 77–78, 80
4.NBT.3	65, 75, 82
4.NBT.6	5–82

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**Check What You Know****Division Facts through $81 \div 9$**

Divide.

a**b****c****d****e**

1. $3 \overline{)15}$

$7 \overline{)49}$

$9 \overline{)27}$

$5 \overline{)45}$

$7 \overline{)21}$

2. $3 \overline{)18}$

$7 \overline{)42}$

$9 \overline{)81}$

$7 \overline{)56}$

$6 \overline{)30}$

3. $4 \overline{)36}$

$4 \overline{)16}$

$5 \overline{)40}$

$2 \overline{)10}$

$4 \overline{)36}$

4. $9 \overline{)18}$

$5 \overline{)35}$

$7 \overline{)28}$

$2 \overline{)6}$

$4 \overline{)24}$

5. $5 \overline{)15}$

$3 \overline{)21}$

$9 \overline{)54}$

$2 \overline{)8}$

$2 \overline{)14}$

6. $6 \overline{)36}$

$6 \overline{)48}$

$8 \overline{)32}$

$3 \overline{)24}$

$3 \overline{)9}$

7. $8 \overline{)72}$

$8 \overline{)64}$

$5 \overline{)25}$

$9 \overline{)9}$

$3 \overline{)0}$

8. $5 \overline{)35}$

$5 \overline{)20}$

$4 \overline{)36}$

$8 \overline{)56}$

$2 \overline{)12}$

9. $2 \overline{)18}$

$3 \overline{)27}$

$4 \overline{)28}$

$2 \overline{)2}$

$2 \overline{)8}$

10. $3 \overline{)15}$

$9 \overline{)63}$

$6 \overline{)48}$

$7 \overline{)14}$

$9 \overline{)27}$

Dividing through $45 \div 5$

$$\begin{array}{r} 9 \leftarrow \text{quotient} \\ \text{divisor} \longrightarrow 5 \overline{)45} \leftarrow \text{dividend} \end{array}$$

To check your answer, do the inverse operation.

If $45 \div 5 = 9$, then $5 \times 9 = 45$ must be true.

Using the division table, find 45 in the 5 column. The quotient is named at the beginning of the row.

5-column \longrightarrow **(divisors)**

x	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

(quotients)

quotient \longrightarrow

Divide.

a**b****c****d****e**

1. $5 \overline{)35}$ $4 \overline{)16}$ $4 \overline{)36}$ $3 \overline{)18}$ $5 \overline{)25}$

2. $2 \overline{)18}$ $3 \overline{)18}$ $3 \overline{)27}$ $3 \overline{)12}$ $5 \overline{)20}$

3. $5 \overline{)45}$ $3 \overline{)15}$ $5 \overline{)30}$ $4 \overline{)32}$ $2 \overline{)8}$

Complete the following.

a**b****c**

4. $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$ so $3 \overline{)15}$

$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$ so $7 \overline{)28}$

$\begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array}$ so $4 \overline{)12}$

Dividing through $45 \div 5$

Divide.

a**b****c****d****e**

1. $3 \overline{)21}$

$2 \overline{)10}$

$2 \overline{)16}$

$2 \overline{)12}$

$9 \overline{)45}$

2. $5 \overline{)35}$

$2 \overline{)18}$

$5 \overline{)40}$

$5 \overline{)30}$

$4 \overline{)24}$

3. $3 \overline{)24}$

$4 \overline{)20}$

$3 \overline{)9}$

$4 \overline{)12}$

$2 \overline{)14}$

4. $4 \overline{)4}$

$5 \overline{)15}$

$5 \overline{)10}$

$4 \overline{)0}$

$3 \overline{)6}$

Complete the following.

a**b****c**

5.
$$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$$
 so $6 \overline{)24}$

$$\begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array}$$
 so $8 \overline{)24}$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$
 so $6 \overline{)30}$

Dividing through $63 \div 7$

divisor \longrightarrow $7 \overline{) 63}$ \longleftarrow dividend

$9 \longleftarrow$ quotient

To check your answer, do the inverse operation.

If $63 \div 7 = 9$, then $7 \times 9 = 63$ must be true.

Using the division table, find 63 in the 7 column. The quotient is named at the end of the row.

7-column \longrightarrow

x	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

quotient \longrightarrow

Divide.

a**b****c****d****e**

1. $7 \overline{) 49}$ $5 \overline{) 45}$ $6 \overline{) 36}$ $3 \overline{) 24}$ $3 \overline{) 27}$

2. $2 \overline{) 18}$ $4 \overline{) 24}$ $6 \overline{) 48}$ $4 \overline{) 32}$ $5 \overline{) 45}$

3. $5 \overline{) 40}$ $2 \overline{) 12}$ $6 \overline{) 6}$ $7 \overline{) 56}$ $7 \overline{) 0}$

Complete the following.

a**b****c**

4. $\begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array}$ so $6 \overline{) 42}$

$\begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array}$ so $9 \overline{) 45}$

$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$ so $7 \overline{) 56}$

Dividing through $63 \div 7$

Divide.

a**b****c****d****e**

1. $2 \overline{)16}$

$6 \overline{)54}$

$5 \overline{)25}$

$5 \overline{)10}$

$7 \overline{)21}$

2. $7 \overline{)28}$

$6 \overline{)42}$

$7 \overline{)63}$

$6 \overline{)24}$

$4 \overline{)20}$

3. $7 \overline{)35}$

$5 \overline{)30}$

$4 \overline{)12}$

$4 \overline{)16}$

$7 \overline{)7}$

4. $5 \overline{)15}$

$7 \overline{)42}$

$3 \overline{)21}$

$6 \overline{)12}$

$6 \overline{)30}$

Complete the following.

a**b****c**

5.
$$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$$
 so $9 \overline{)54}$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array}$$
 so $4 \overline{)28}$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$$
 so $9 \overline{)63}$

Dividing through $81 \div 9$

divisor \longrightarrow $9 \overline{) 81}$ \longleftarrow dividend

$9 \longleftarrow$ quotient

To check your answer, do the inverse operation.

If $81 \div 9 = 9$, then $9 \times 9 = 81$ must be true.

Using the division table, find 81 in the 9 column. The quotient is named at the end of the row.

9-column \longrightarrow

x	0	1	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9
2	0	2	4	6	8	10	12	14	16	18
3	0	3	6	9	12	15	18	21	24	27
4	0	4	8	12	16	20	24	28	32	36
5	0	5	10	15	20	25	30	35	40	45
6	0	6	12	18	24	30	36	42	48	54
7	0	7	14	21	28	35	42	49	56	63
8	0	8	16	24	32	40	48	56	64	72
9	0	9	18	27	36	45	54	63	72	81

quotient \longrightarrow

Divide.

a**b****c****d****e**

1. $9 \overline{) 72}$ $8 \overline{) 40}$ $8 \overline{) 24}$ $6 \overline{) 48}$ $7 \overline{) 28}$

2. $6 \overline{) 18}$ $3 \overline{) 21}$ $7 \overline{) 49}$ $9 \overline{) 54}$ $9 \overline{) 81}$

3. $5 \overline{) 35}$ $7 \overline{) 56}$ $9 \overline{) 18}$ $7 \overline{) 42}$ $9 \overline{) 36}$

Complete the following.

a**b****c**

4. $\begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array}$ so $5 \overline{) 35}$

$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$ so $8 \overline{) 64}$

$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$ so $6 \overline{) 54}$

Dividing through 81 \div 9

Divide.

a**b****c****d****e**

1. $7 \overline{)42}$

$5 \overline{)45}$

$8 \overline{)32}$

$7 \overline{)63}$

$8 \overline{)64}$

2. $6 \overline{)36}$

$4 \overline{)32}$

$7 \overline{)28}$

$9 \overline{)0}$

$4 \overline{)28}$

3. $9 \overline{)45}$

$5 \overline{)30}$

$4 \overline{)12}$

$5 \overline{)25}$

$7 \overline{)14}$

4. $9 \overline{)9}$

$8 \overline{)40}$

$8 \overline{)48}$

$6 \overline{)42}$

$3 \overline{)27}$

Complete the following.

a**b****c**

5.
$$\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$$
 so $4 \overline{)36}$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$$
 so $9 \overline{)63}$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$$
 so $8 \overline{)48}$

Division Practice

Divide.

a**b****c****d****e**

1. $8 \overline{)56}$ $6 \overline{)24}$ $2 \overline{)18}$ $5 \overline{)35}$ $7 \overline{)42}$

2. $6 \overline{)48}$ $6 \overline{)30}$ $8 \overline{)72}$ $6 \overline{)36}$ $9 \overline{)81}$

3. $9 \overline{)54}$ $3 \overline{)21}$ $7 \overline{)28}$ $3 \overline{)18}$ $2 \overline{)18}$

4. $5 \overline{)45}$ $9 \overline{)36}$ $6 \overline{)42}$ $8 \overline{)64}$ $7 \overline{)63}$

5. $3 \overline{)24}$ $9 \overline{)27}$ $5 \overline{)20}$ $7 \overline{)49}$ $5 \overline{)25}$

Division Practice

Divide.

a**b****c****d****e**

1. $3 \overline{)9}$

$2 \overline{)4}$

$3 \overline{)6}$

$4 \overline{)8}$

$1 \overline{)7}$

2. $3 \overline{)0}$

$2 \overline{)10}$

$7 \overline{)14}$

$2 \overline{)6}$

$3 \overline{)54}$

3. $1 \overline{)5}$

$3 \overline{)12}$

$6 \overline{)12}$

$2 \overline{)2}$

$5 \overline{)10}$

4. $5 \overline{)25}$

$4 \overline{)16}$

$3 \overline{)15}$

$8 \overline{)72}$

$2 \overline{)2}$

Find the rule and complete each table.

a**5.**

In	Out
21	
35	5
63	
49	
14	2

b

In	Out
12	
10	5
14	
18	9
22	

c

In	Out
81	
36	4
54	
72	8
9	

Division Practice

Divide.

a**b****c****d****e**

1. $4 \overline{)28}$ $4 \overline{)4}$ $2 \overline{)18}$ $6 \overline{)18}$ $9 \overline{)63}$

2. $7 \overline{)63}$ $3 \overline{)27}$ $4 \overline{)32}$ $8 \overline{)64}$ $8 \overline{)48}$

3. $4 \overline{)24}$ $9 \overline{)72}$ $8 \overline{)32}$ $5 \overline{)20}$ $9 \overline{)45}$

4. $6 \overline{)24}$ $7 \overline{)49}$ $9 \overline{)81}$ $5 \overline{)30}$ $3 \overline{)21}$

5. $8 \overline{)16}$ $2 \overline{)8}$ $7 \overline{)28}$ $7 \overline{)42}$ $6 \overline{)48}$

Division Practice

Divide.

a**b****c****d****e**

1. $5 \overline{)30}$

$7 \overline{)21}$

$4 \overline{)28}$

$9 \overline{)63}$

$5 \overline{)35}$

2. $1 \overline{)9}$

$4 \overline{)24}$

$8 \overline{)32}$

$6 \overline{)36}$

$2 \overline{)14}$

3. $7 \overline{)56}$

$4 \overline{)36}$

$9 \overline{)27}$

$6 \overline{)42}$

$8 \overline{)8}$

4. $3 \overline{)24}$

$7 \overline{)63}$

$9 \overline{)54}$

$3 \overline{)27}$

$1 \overline{)7}$

5. $8 \overline{)24}$

$2 \overline{)16}$

$7 \overline{)42}$

$6 \overline{)54}$

$8 \overline{)56}$

Division Practice

Divide.

a**b****c****d****e**

1. $3 \overline{)15}$ $8 \overline{)40}$ $3 \overline{)21}$ $9 \overline{)36}$ $4 \overline{)20}$

2. $8 \overline{)32}$ $9 \overline{)9}$ $5 \overline{)35}$ $9 \overline{)81}$ $6 \overline{)36}$

3. $4 \overline{)32}$ $8 \overline{)64}$ $1 \overline{)4}$ $7 \overline{)42}$ $7 \overline{)28}$

4. $6 \overline{)30}$ $3 \overline{)24}$ $6 \overline{)48}$ $9 \overline{)54}$ $3 \overline{)18}$

5. $8 \overline{)72}$ $6 \overline{)24}$ $8 \overline{)56}$ $7 \overline{)35}$ $4 \overline{)28}$

Division Practice

Divide.

a**b****c****d****e**

1. $6 \overline{)48}$

$7 \overline{)28}$

$7 \overline{)42}$

$8 \overline{)56}$

$6 \overline{)24}$

2. $5 \overline{)35}$

$8 \overline{)64}$

$6 \overline{)30}$

$9 \overline{)63}$

$7 \overline{)49}$

3. $8 \overline{)40}$

$9 \overline{)54}$

$4 \overline{)32}$

$5 \overline{)45}$

$7 \overline{)56}$

4. $4 \overline{)36}$

$5 \overline{)30}$

$7 \overline{)63}$

$8 \overline{)72}$

$7 \overline{)35}$

Find the rule and complete each table.

a**5.**

In	Out
12	4
30	
21	
18	
9	3

b

In	Out
32	
48	
16	2
56	7
24	

c

In	Out
24	6
36	
12	3
28	
20	

Division Practice

Divide.

a**b****c****d****e**

1. $6 \overline{)48}$ $4 \overline{)32}$ $6 \overline{)36}$ $7 \overline{)42}$ $7 \overline{)28}$

2. $9 \overline{)45}$ $8 \overline{)56}$ $6 \overline{)30}$ $9 \overline{)54}$ $7 \overline{)49}$

3. $5 \overline{)35}$ $6 \overline{)24}$ $9 \overline{)36}$ $8 \overline{)40}$ $9 \overline{)63}$

4. $7 \overline{)21}$ $6 \overline{)54}$ $4 \overline{)20}$ $8 \overline{)32}$ $7 \overline{)56}$

5. $3 \overline{)21}$ $5 \overline{)40}$ $5 \overline{)20}$ $5 \overline{)45}$ $7 \overline{)35}$

Division Practice

Divide.

a**b****c****d****e**

1. $4 \overline{)12}$

$3 \overline{)15}$

$2 \overline{)18}$

$6 \overline{)24}$

$3 \overline{)21}$

2. $5 \overline{)25}$

$4 \overline{)16}$

$5 \overline{)20}$

$7 \overline{)14}$

$8 \overline{)8}$

3. $4 \overline{)32}$

$6 \overline{)30}$

$3 \overline{)27}$

$8 \overline{)16}$

$8 \overline{)24}$

4. $9 \overline{)18}$

$4 \overline{)24}$

$5 \overline{)5}$

$7 \overline{)28}$

$1 \overline{)5}$

5. $4 \overline{)36}$

$1 \overline{)9}$

$7 \overline{)21}$

$5 \overline{)15}$

$9 \overline{)36}$

Division Practice

Divide.

a**b****c****d****e**

1. $4 \overline{)36}$ $6 \overline{)54}$ $4 \overline{)8}$ $8 \overline{)16}$ $2 \overline{)12}$

2. $6 \overline{)18}$ $9 \overline{)81}$ $4 \overline{)4}$ $6 \overline{)30}$ $3 \overline{)9}$

3. $7 \overline{)14}$ $3 \overline{)21}$ $5 \overline{)40}$ $3 \overline{)24}$ $4 \overline{)16}$

4. $1 \overline{)5}$ $3 \overline{)6}$ $5 \overline{)10}$ $4 \overline{)12}$ $5 \overline{)30}$

5. $7 \overline{)49}$ $9 \overline{)63}$ $4 \overline{)32}$ $2 \overline{)14}$ $1 \overline{)8}$

Division Practice

Divide.

a**b****c****d****e**

1. $5 \overline{)20}$

$1 \overline{)8}$

$7 \overline{)7}$

$3 \overline{)27}$

$5 \overline{)35}$

2. $8 \overline{)40}$

$7 \overline{)21}$

$9 \overline{)45}$

$7 \overline{)42}$

$8 \overline{)64}$

3. $2 \overline{)18}$

$3 \overline{)15}$

$6 \overline{)12}$

$6 \overline{)24}$

$8 \overline{)48}$

4. $6 \overline{)6}$

$2 \overline{)8}$

$9 \overline{)36}$

$4 \overline{)20}$

$2 \overline{)16}$

Find the rule and complete each table.

a

5.

In	Out
30	
40	8
25	
45	9
20	

b

In	Out
8	
64	8
24	
56	7
40	

c

In	Out
36	
18	
54	
42	7
12	2

Division Practice

Divide.

a**b****c****d****e**

1. $1 \overline{)4}$ $2 \overline{)16}$ $9 \overline{)63}$ $7 \overline{)42}$ $5 \overline{)20}$

2. $9 \overline{)54}$ $9 \overline{)9}$ $4 \overline{)12}$ $1 \overline{)6}$ $9 \overline{)36}$

3. $8 \overline{)16}$ $5 \overline{)25}$ $2 \overline{)12}$ $4 \overline{)8}$ $3 \overline{)6}$

4. $8 \overline{)8}$ $6 \overline{)30}$ $6 \overline{)18}$ $6 \overline{)54}$ $9 \overline{)27}$

5. $2 \overline{)14}$ $2 \overline{)10}$ $1 \overline{)3}$ $4 \overline{)20}$ $3 \overline{)18}$

Division Practice

Divide.

a**b****c****d****e**

1. $8 \overline{)72}$

$2 \overline{)6}$

$7 \overline{)56}$

$3 \overline{)24}$

$4 \overline{)32}$

2. $7 \overline{)63}$

$4 \overline{)16}$

$8 \overline{)32}$

$5 \overline{)30}$

$2 \overline{)8}$

3. $7 \overline{)7}$

$8 \overline{)24}$

$3 \overline{)27}$

$6 \overline{)6}$

$1 \overline{)8}$

4. $5 \overline{)35}$

$6 \overline{)42}$

$6 \overline{)36}$

$8 \overline{)64}$

$3 \overline{)21}$

Find the rule and complete each table.

a

5.

In	Out
18	
45	
63	7
36	
27	3

b

In	Out
21	7
6	
24	
27	9
15	

c

In	Out
7	
42	
35	5
56	8
49	

**Check What You Learned****Division Facts through $81 \div 9$**

Divide.

a**b****c****d****e**

- | | | | | |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|
| 1. $3 \overline{)18}$ | $9 \overline{)27}$ | $7 \overline{)7}$ | $8 \overline{)64}$ | $5 \overline{)40}$ |
| 2. $9 \overline{)72}$ | $6 \overline{)36}$ | $8 \overline{)16}$ | $7 \overline{)21}$ | $4 \overline{)28}$ |
| 3. $5 \overline{)25}$ | $8 \overline{)64}$ | $9 \overline{)54}$ | $5 \overline{)35}$ | $3 \overline{)12}$ |
| 4. $7 \overline{)49}$ | $9 \overline{)9}$ | $7 \overline{)21}$ | $2 \overline{)18}$ | $3 \overline{)18}$ |
| 5. $4 \overline{)16}$ | $4 \overline{)20}$ | $9 \overline{)36}$ | $8 \overline{)56}$ | $7 \overline{)42}$ |
| 6. $9 \overline{)0}$ | $4 \overline{)32}$ | $9 \overline{)81}$ | $5 \overline{)10}$ | $7 \overline{)49}$ |
| 7. $8 \overline{)32}$ | $9 \overline{)54}$ | $6 \overline{)48}$ | $3 \overline{)24}$ | $4 \overline{)24}$ |
| 8. $9 \overline{)45}$ | $3 \overline{)27}$ | $5 \overline{)30}$ | $6 \overline{)42}$ | $2 \overline{)4}$ |
| 9. $8 \overline{)40}$ | $9 \overline{)63}$ | $2 \overline{)14}$ | $3 \overline{)9}$ | $7 \overline{)56}$ |
| 10. $8 \overline{)48}$ | $7 \overline{)7}$ | $2 \overline{)8}$ | $1 \overline{)9}$ | $7 \overline{)28}$ |



Check What You Know

Problem Solving: Division Facts through $81 \div 9$

Read the problem carefully and solve. Show your work under each question.

Darnell collects stickers. He wants to organize them in a sticker book. He plans to put the same number of stickers on each page. Darnell has 24 sports stickers, 81 animal stickers, 36 fuzzy stickers, and 63 scratch-and-sniff stickers.

1. Darnell can fit 9 animal stickers on a page. How many pages will he use for his animal stickers?

_____ pages

2. Darnell puts all of his scratch-and-sniff stickers on 7 pages. He puts the same number of stickers on each page. How many stickers are on each page?

_____ stickers

3. Darnell fits all of his sports stickers onto 3 pages. If each page has the same number of stickers, how many stickers are on each page? What multiplication sentence can Darnell use to check his division?

_____ stickers

4. How many pages will Darnell use for his fuzzy stickers if he puts 6 fuzzy stickers on each page?

_____ pages

Dividing through $45 \div 5$

Read the problem carefully and solve. Show your work under each question.

Carolyn helps get 4 sailboats ready for a sailing class. She divides the supplies evenly between each sailboat. She has 8 sails and 20 life jackets. All of the sailboats need new ropes for their sails. There are 16 pieces of rope.

Helpful Hint

The division sentence $16 \div 2 = 8$ can also be written as:

$$\begin{array}{r} \text{quotient} \longrightarrow 8 \\ \text{divisor} \longrightarrow 2 \overline{) 16} \longleftarrow \text{dividend} \end{array}$$

1. Carolyn puts the same number of sails on each boat. How many sails does she put on each sailboat?

_____ sails

2. The pieces of rope are evenly divided among the boats. How many pieces of rope does each sailboat get?

_____ pieces of rope

3. Carolyn puts the same number of life jackets on each boat. How many life jackets does she put on each boat?

_____ life jackets

Dividing through $63 \div 7$

Read the problem carefully and solve. Show your work under each question.

Michael coaches a tennis program at a summer camp. He divides the campers into 2 teams, beginners and advanced. He has 54 tennis balls to use with the beginner team and 48 balls to use with the advanced team. He always divides the tennis balls evenly between the groups within each team.

-
1. Michael divides the beginners into 6 groups for a practice drill. How many tennis balls does each group get?

_____ tennis balls

2. Michael divides the advanced players into 6 groups to practice serving. How many tennis balls does each group get?

_____ tennis balls

3. The beginners lost 5 tennis balls. Michael divides the players into 7 groups for the next activity. How many tennis balls will each group get?

_____ tennis balls

Dividing through $81 \div 9$

Read the problem carefully and solve. Show your work under each question.

Carla fills baskets with flowers for her mom's surprise birthday party. Each of the 8 tables will get a basket. There are 72 pink flowers, 56 yellow flowers, and 64 white flowers. Carla wants to divide the flowers evenly between the baskets.

Helpful Hint

When solving word problems, write an equation to help you find the answer. If you know there are 63 total items to be equally divided between 9 people and you want to know how many items each person gets, you can write the problem like this:

$$63 \div x = 9$$

Then, find x by finding the number that makes 63 when multiplied by 9.

$$9 \times 7 = 63 \quad x = 7$$

1. Carla evenly divides the pink flowers among the baskets. How many pink flowers are in each basket?

_____ pink flowers

2. Carla notices 16 of the white flowers are too wilted to use. If Carla throws those flowers away, how many white flowers are in each basket? Write a division equation. Then, solve.

_____ white flowers

3. After Carla evenly divides the yellow flowers between the baskets, she wants to check to make sure she divided correctly. What multiplication sentence can Carla use to check her work?

Division Practice

Read the problem carefully and solve. Show your work under each question.

Appleton School is having a cake and cookie sale. Students are helping to bake the cakes and cookies. They measure and mix the recipes.

-
1. Delores divides flour into batches to make cakes. She has 18 cups of flour. Each cake takes 2 cups. How many cakes can she make?

_____ cakes

2. Ella has 21 teaspoons of vanilla. Each batch of cookies takes 3 teaspoons. How many batches of cookies can Ella make from this much vanilla?

_____ batches

3. Each batch of cookies contains 8 tablespoons of chopped pecans. Marty has 40 tablespoons of chopped pecans. How many batches of cookies can she make with the pecans?

_____ batches

Division Practice

Solve each problem. Show your work under each question.

1. Mrs. Blair is planning a yard party. Her big punch bowl holds 40 glasses of punch. If she wants to allow 5 glasses for each guest, how many guests will the punch bowl serve?

The punch bowl will serve _____ guests.

2. At the rodeo, 32 people signed up for bronco riding. The 4 horses will give the same number of rides. How many rides will each horse give? Write a division equation. Then, solve.

Each horse will give _____ rides.

3. Mr. Ferris is packing to move to a new house. He has 35 pairs of shoes. He can pack 7 pairs of shoes in a box. How many boxes will he need for his shoes?

Mr. Ferris will need _____ boxes for his shoes.

Division Practice

Solve each problem. Show your work under each question.

1. At the local fair, 72 people waited in line for a boat ride. The boat can hold 8 people. How many trips will the boat have to take for everyone to get a ride?

The boat will have to take _____ trips.

2. The Davis brothers found 27 cars when they cleaned out their toy closet. They want to give the same number of cars to each of their 3 cousins. How many cars will each cousin get?

Each cousin will get _____ toy cars.

3. Mrs. Gomez sold 18 pet lizards this week at her pet store. If 9 customers bought the same number of lizards, how many lizards did each person take home? Write a division equation. Then, solve.

Each person took home _____ lizards.

Division Practice

Solve each problem. Show your work under each question.

1. Eddie and Toru listened to 72 of their favorite songs. If there were 9 songs on each CD, how many CDs did they listen to?

They listened to _____ CDs.

2. Mr. Luiz printed 35 tests for his students. If there were 7 rows of students, how many tests were passed out to each row?

There were _____ tests passed out to each row.

3. Gary opened a bag of candy containing 81 pieces. He wants to give each of his guests the same number of pieces. If he has 9 guests, how many pieces does each person get?

Each guest gets _____ pieces.

Division Practice

Solve each problem. Show your work under each question.

1. Last year, Mrs. Ford decided to give chores to each person in the family. Each person got the same number of chores. There are 8 family members. If there were 32 chores, how many did each person get?

Each person got _____ chores.

2. It takes 16 hours to drive to the dunes. Tasha and her brother Kurt will drive the same number of hours. How many hours will each of them drive?

Each of them will drive _____ hours.

3. The Pet Store warehouse received 63 boxes of cat litter. The same number of boxes will be sent to 9 stores. How many boxes will each store get? Write a division equation. Then, solve.

Each store will get _____ boxes.

Division Practice

Solve each problem. Show your work under each question.

1. Lori found 42 shells at the beach. She gave the same number of shells to 7 of her friends. How many shells did she give to each friend?

She gave _____ shells to each friend.

2. The drama club is giving a party in the school lunchroom. The club wants to be seated in groups of 8. If 64 students go to the party, how many groups of students will there be?

The drama club will have _____ groups of students.

3. The Pancake Restaurant served 32 pancakes. If 8 customers ate an equal number of pancakes, how many did each person eat?

Each person ate _____ pancakes.

Division Practice

Solve each problem. Show your work under each question.

1. In the flower seed package, there are 48 seeds. Alicia has 8 flowerpots. She wants to put an equal number of seeds in each pot. How many seeds should she put in each pot?

She should put _____ seeds in each pot.

2. The local baseball team has a supply of 54 baseballs for 9 home games. How many baseballs are available for each home game?

There are _____ baseballs available for each home game.

3. The class gerbil has just had 16 babies. If there are 8 students who want to take them home, how many babies can each student have?

Each student can have _____ baby gerbils.



Check What You Learned

Problem Solving: Division Facts through $81 \div 9$

Read the problem carefully and solve. Show your work under each question.

The marching bands from four area schools are in a large parade. Each band marches in rows with the same number of students in each row. Leo's school band has 45 members. Taro's school band has 72 members. Maya's school band has 32 members, and Barbara's school band has 63 members.

1. Maya's school band marches in 4 rows. How many band members are there in each row?

_____ band members

2. Taro's school band marches with 9 band members in each row. How many rows does the band have? Write a division equation. Then, solve.

_____ rows

3. Barbara's band director plans to have 7 rows. How many band members are in each row? What multiplication sentence can be used to check this division?

_____ band members

4. Leo's school band also marches with 9 band members in each row. How many rows does the band have?

_____ rows

Mid-Test Chapters 1–2

Divide.

a**b****c****d****e**

1. $5 \overline{)25}$

$4 \overline{)16}$

$7 \overline{)21}$

$9 \overline{)81}$

$6 \overline{)18}$

2. $6 \overline{)54}$

$3 \overline{)27}$

$9 \overline{)72}$

$7 \overline{)49}$

$5 \overline{)5}$

3. $3 \overline{)24}$

$4 \overline{)28}$

$9 \overline{)36}$

$2 \overline{)14}$

$1 \overline{)9}$

4. $3 \overline{)6}$

$8 \overline{)16}$

$7 \overline{)35}$

$5 \overline{)15}$

$3 \overline{)9}$

5. $7 \overline{)42}$

$9 \overline{)45}$

$2 \overline{)2}$

$7 \overline{)63}$

$2 \overline{)6}$

6. $5 \overline{)20}$

$2 \overline{)18}$

$8 \overline{)32}$

$4 \overline{)24}$

$8 \overline{)72}$

7. $1 \overline{)1}$

$8 \overline{)64}$

$6 \overline{)36}$

$5 \overline{)45}$

$2 \overline{)16}$

8. $8 \overline{)48}$

$3 \overline{)15}$

$3 \overline{)21}$

$9 \overline{)54}$

$1 \overline{)5}$

9. $8 \overline{)24}$

$7 \overline{)28}$

$4 \overline{)36}$

$7 \overline{)14}$

$9 \overline{)9}$

10. $5 \overline{)35}$

$6 \overline{)42}$

$5 \overline{)45}$

$1 \overline{)2}$

$9 \overline{)63}$

Mid-Test Chapters 1–2

Solve each problem. Show your work under each question.

- 11.** A group of 7 boys cut lawns over the weekend. They made 56 dollars. Each boy will make the same amount. How much money will each boy get?

Each boy will get _____ dollars.

- 12.** Gloria decided to make lemonade for her family. There are 8 people in her family. The pitcher will hold 24 glasses of lemonade. How many glasses can each person have? Write a division equation. Then, solve.

Each person can have _____ glasses.

- 13.** Susan, Marta, and Aisha have 5 hours to spend at the zoo. There are 40 different animals they want to see. During each hour at the zoo, how many animals should they plan to see?

They should plan to see _____ different animals each hour.

- 14.** Write the rule for this table.

In	Out
48	8
24	4
42	7
18	3

**Check What You Know****Dividing through 4 Digits by 1 Digit**

Divide.

a**b****c****d****e**

1. $2 \overline{)42}$

$2 \overline{)15}$

$2 \overline{)142}$

$3 \overline{)63}$

$3 \overline{)180}$

2. $5 \overline{)152}$

$3 \overline{)521}$

$8 \overline{)55}$

$7 \overline{)70}$

$4 \overline{)98}$

3. $9 \overline{)87}$

$7 \overline{)77}$

$2 \overline{)50}$

$2 \overline{)8142}$

$3 \overline{)900}$

4. $3 \overline{)45}$

$5 \overline{)105}$

$5 \overline{)6500}$

$8 \overline{)78}$

$3 \overline{)68}$

5. $5 \overline{)1905}$

$6 \overline{)121}$

$7 \overline{)62}$

$7 \overline{)22}$

$2 \overline{)90}$

Dividing 2 Digits

\times	1	2	3	4	5
8	8	16	24	32	40

8×4
 Subtract.

	4
8	$\overline{)33}$
	$\underline{-32}$
	1

33 is between 32 and 40, so $33 \div 8$ is between 4 and 5. The ones digit is 4.

Since $33 - 32 = 1$ and 1 is less than 8, the remainder 1 is recorded like this.

	4 r 1
8	$\overline{)33}$
	$\underline{-32}$
	1

Divide.

a**b****c****d****e**

1. $5 \overline{)26}$ $7 \overline{)58}$ $4 \overline{)31}$ $9 \overline{)82}$ $6 \overline{)35}$

2. $8 \overline{)66}$ $3 \overline{)17}$ $2 \overline{)13}$ $7 \overline{)50}$ $6 \overline{)40}$

3. $9 \overline{)30}$ $5 \overline{)41}$ $3 \overline{)10}$ $8 \overline{)73}$ $7 \overline{)57}$

4. $8 \overline{)20}$ $6 \overline{)37}$ $9 \overline{)55}$ $7 \overline{)29}$ $5 \overline{)47}$

Dividing 2 Digits

Divide.

a**b****c****d****e**

1. $2 \overline{)36}$

$5 \overline{)76}$

$7 \overline{)79}$

$4 \overline{)96}$

$7 \overline{)93}$

2. $5 \overline{)86}$

$3 \overline{)96}$

$8 \overline{)99}$

$7 \overline{)84}$

$3 \overline{)75}$

3. $6 \overline{)93}$

$6 \overline{)72}$

$8 \overline{)89}$

$7 \overline{)89}$

$9 \overline{)99}$

4. $4 \overline{)88}$

$3 \overline{)84}$

$2 \overline{)77}$

$4 \overline{)78}$

$8 \overline{)93}$

Division Practice

Divide.

a**b****c****d****e**

1. $4 \overline{)17}$ $3 \overline{)22}$ $4 \overline{)21}$ $3 \overline{)29}$ $4 \overline{)26}$

2. $8 \overline{)34}$ $8 \overline{)27}$ $4 \overline{)30}$ $7 \overline{)23}$ $5 \overline{)32}$

3. $3 \overline{)26}$ $5 \overline{)38}$ $3 \overline{)20}$ $4 \overline{)37}$ $9 \overline{)38}$

4. $6 \overline{)21}$ $5 \overline{)42}$ $5 \overline{)26}$ $4 \overline{)35}$ $2 \overline{)15}$

5. $7 \overline{)29}$ $9 \overline{)48}$ $5 \overline{)22}$ $9 \overline{)28}$ $6 \overline{)34}$

Division Practice

Divide.

a**b****c****d****e**

1. $7 \overline{)30}$

$8 \overline{)43}$

$9 \overline{)75}$

$6 \overline{)26}$

$5 \overline{)27}$

2. $8 \overline{)26}$

$6 \overline{)52}$

$9 \overline{)39}$

$4 \overline{)34}$

$9 \overline{)48}$

3. $7 \overline{)38}$

$3 \overline{)22}$

$5 \overline{)37}$

$6 \overline{)38}$

$6 \overline{)33}$

4. $3 \overline{)26}$

$8 \overline{)58}$

$7 \overline{)51}$

$9 \overline{)84}$

$4 \overline{)30}$

5. $4 \overline{)22}$

$9 \overline{)64}$

$6 \overline{)45}$

$8 \overline{)66}$

$7 \overline{)65}$

Division Practice

Divide.

a**b****c****d****e**

1. $8 \overline{)74}$

$5 \overline{)32}$

$6 \overline{)50}$

$3 \overline{)20}$

$9 \overline{)50}$

2. $7 \overline{)59}$

$4 \overline{)38}$

$8 \overline{)50}$

$4 \overline{)27}$

$9 \overline{)47}$

3. $8 \overline{)61}$

$7 \overline{)40}$

$6 \overline{)57}$

$9 \overline{)82}$

$2 \overline{)11}$

4. $7 \overline{)48}$

$9 \overline{)73}$

$5 \overline{)47}$

$6 \overline{)44}$

$7 \overline{)68}$

5. $3 \overline{)17}$

$8 \overline{)47}$

$6 \overline{)31}$

$5 \overline{)43}$

$9 \overline{)87}$

Division Practice

Divide.

a**b****c****d****e**

1. $3 \overline{)68}$

$3 \overline{)86}$

$2 \overline{)47}$

$5 \overline{)57}$

$8 \overline{)89}$

2. $3 \overline{)95}$

$7 \overline{)79}$

$2 \overline{)65}$

$4 \overline{)87}$

$3 \overline{)37}$

3. $5 \overline{)59}$

$2 \overline{)87}$

$4 \overline{)45}$

$3 \overline{)64}$

$2 \overline{)83}$

4. $8 \overline{)97}$

$6 \overline{)79}$

$4 \overline{)65}$

$7 \overline{)95}$

$3 \overline{)74}$

5. $5 \overline{)72}$

$2 \overline{)53}$

$7 \overline{)86}$

$3 \overline{)47}$

$6 \overline{)81}$

Division Practice

Divide.

a**b****c****d****e**

1. $6 \overline{)92}$ $4 \overline{)63}$ $2 \overline{)37}$ $7 \overline{)96}$ $3 \overline{)56}$

2. $5 \overline{)63}$ $8 \overline{)99}$ $4 \overline{)55}$ $6 \overline{)85}$ $5 \overline{)74}$

3. $2 \overline{)75}$ $4 \overline{)95}$ $7 \overline{)82}$ $3 \overline{)85}$ $8 \overline{)95}$

4. $4 \overline{)75}$ $5 \overline{)82}$ $3 \overline{)77}$ $6 \overline{)89}$ $2 \overline{)57}$

5. $7 \overline{)93}$ $5 \overline{)74}$ $2 \overline{)93}$ $4 \overline{)67}$ $3 \overline{)43}$

Division Practice

Divide.

a**b****c****d****e**

1. $2 \overline{)63}$

$5 \overline{)75}$

$9 \overline{)97}$

$7 \overline{)88}$

$5 \overline{)56}$

2. $3 \overline{)72}$

$8 \overline{)96}$

$6 \overline{)78}$

$4 \overline{)65}$

$5 \overline{)97}$

3. $2 \overline{)75}$

$4 \overline{)34}$

$6 \overline{)93}$

$8 \overline{)89}$

$2 \overline{)69}$

4. $3 \overline{)64}$

$7 \overline{)87}$

$5 \overline{)95}$

$4 \overline{)47}$

$3 \overline{)59}$

5. $4 \overline{)59}$

$6 \overline{)71}$

$2 \overline{)49}$

$7 \overline{)99}$

$8 \overline{)97}$

Dividing 3 Digits

Since $100 \times 8 = 800$ and 800 is greater than 453, there is no hundreds digit.

$$8 \overline{) 453}$$

\times	10	20	30	40	50	60
8	80	160	240	320	400	480

453 is between 400 and 480. $453 \div 8$ is between 50 and 60. The tens digit is 5.

$$\begin{array}{r} 5 \\ 8 \overline{) 453} \\ \underline{-40} \\ 53 \text{ Subtract} \end{array} \quad 8 \times 5 = 40$$

\times	1	2	3	4	5	6	7
8	8	16	24	32	40	48	56

53 is between 48 and 56. $53 \div 8$ is between 6 and 7. The ones digit is 6.

$$\begin{array}{r} 56 \text{ r } 5 \\ 8 \overline{) 453} \\ \underline{-40} \\ 53 \text{ Subtract} \\ \underline{-48} \\ 5 \text{ Remainder} \end{array} \quad 8 \times 6 = 48$$

Divide.

a**b****c****d****e**

1. $8 \overline{) 720}$

$4 \overline{) 372}$

$9 \overline{) 372}$

$4 \overline{) 173}$

$2 \overline{) 150}$

2. $6 \overline{) 552}$

$3 \overline{) 139}$

$4 \overline{) 248}$

$9 \overline{) 890}$

$5 \overline{) 105}$

3. $9 \overline{) 780}$

$5 \overline{) 225}$

$9 \overline{) 813}$

$7 \overline{) 511}$

$3 \overline{) 110}$

Dividing 3 Digits

Divide.

a**b****c****d****e**

1. $5 \overline{) 546}$

$4 \overline{) 762}$

$3 \overline{) 472}$

$6 \overline{) 687}$

$8 \overline{) 994}$

2. $3 \overline{) 933}$

$4 \overline{) 456}$

$7 \overline{) 806}$

$2 \overline{) 451}$

$5 \overline{) 750}$

3. $9 \overline{) 936}$

$3 \overline{) 768}$

$9 \overline{) 915}$

$4 \overline{) 848}$

$6 \overline{) 762}$

4. $2 \overline{) 835}$

$2 \overline{) 352}$

$7 \overline{) 766}$

$4 \overline{) 506}$

$2 \overline{) 287}$

Division Practice

Divide.

a**b****c****d****e**

1. $6 \overline{) 773}$ $2 \overline{) 898}$ $4 \overline{) 566}$ $6 \overline{) 781}$ $3 \overline{) 972}$

2. $2 \overline{) 317}$ $4 \overline{) 732}$ $9 \overline{) 989}$ $7 \overline{) 897}$ $2 \overline{) 394}$

3. $5 \overline{) 529}$ $8 \overline{) 897}$ $3 \overline{) 676}$ $2 \overline{) 348}$ $6 \overline{) 930}$

4. $3 \overline{) 784}$ $5 \overline{) 788}$ $3 \overline{) 481}$ $5 \overline{) 558}$ $2 \overline{) 610}$

5. $3 \overline{) 324}$ $5 \overline{) 953}$ $6 \overline{) 868}$ $3 \overline{) 975}$ $6 \overline{) 720}$

Division Practice

Divide.

a**b****c****d****e**

1. $3 \overline{) 225}$ $6 \overline{) 324}$ $9 \overline{) 288}$ $2 \overline{) 138}$ $7 \overline{) 455}$

2. $4 \overline{) 216}$ $8 \overline{) 504}$ $5 \overline{) 270}$ $3 \overline{) 171}$ $6 \overline{) 378}$

3. $9 \overline{) 855}$ $2 \overline{) 194}$ $7 \overline{) 385}$ $4 \overline{) 304}$ $5 \overline{) 435}$

4. $3 \overline{) 201}$ $6 \overline{) 348}$ $8 \overline{) 744}$ $2 \overline{) 154}$ $9 \overline{) 306}$

5. $4 \overline{) 224}$ $7 \overline{) 644}$ $5 \overline{) 475}$ $3 \overline{) 282}$ $6 \overline{) 588}$

Division Practice

Divide.

a**b****c****d****e**

1. $2 \overline{) 155}$ $4 \overline{) 358}$ $6 \overline{) 273}$ $8 \overline{) 428}$ $9 \overline{) 399}$

2. $3 \overline{) 296}$ $5 \overline{) 291}$ $7 \overline{) 549}$ $2 \overline{) 173}$ $5 \overline{) 439}$

3. $9 \overline{) 758}$ $6 \overline{) 392}$ $7 \overline{) 279}$ $3 \overline{) 209}$ $4 \overline{) 231}$

4. $8 \overline{) 699}$ $2 \overline{) 119}$ $6 \overline{) 507}$ $5 \overline{) 197}$ $9 \overline{) 489}$

5. $3 \overline{) 173}$ $7 \overline{) 408}$ $6 \overline{) 237}$ $5 \overline{) 338}$ $4 \overline{) 314}$

Division Practice

Divide.

a**b****c****d****e**

1. $8 \overline{)532}$

$4 \overline{)269}$

$6 \overline{)562}$

$2 \overline{)179}$

$9 \overline{)659}$

2. $3 \overline{)119}$

$7 \overline{)439}$

$5 \overline{)484}$

$4 \overline{)155}$

$9 \overline{)587}$

3. $8 \overline{)757}$

$2 \overline{)157}$

$3 \overline{)143}$

$6 \overline{)338}$

$2 \overline{)193}$

4. $7 \overline{)331}$

$9 \overline{)291}$

$8 \overline{)202}$

$4 \overline{)383}$

$3 \overline{)224}$

5. $5 \overline{)374}$

$6 \overline{)537}$

$9 \overline{)867}$

$2 \overline{)135}$

$6 \overline{)446}$

Division Practice

Divide.

a**b****c****d****e**

1. $2 \overline{)432}$

$4 \overline{)924}$

$6 \overline{)726}$

$5 \overline{)575}$

$3 \overline{)456}$

2. $7 \overline{)784}$

$9 \overline{)999}$

$8 \overline{)896}$

$4 \overline{)848}$

$2 \overline{)952}$

3. $5 \overline{)715}$

$3 \overline{)942}$

$6 \overline{)786}$

$5 \overline{)765}$

$4 \overline{)932}$

4. $3 \overline{)759}$

$2 \overline{)726}$

$5 \overline{)585}$

$7 \overline{)784}$

$2 \overline{)548}$

5. $6 \overline{)972}$

$4 \overline{)968}$

$2 \overline{)746}$

$8 \overline{)896}$

$4 \overline{)856}$

Division Practice

Divide.

a**b****c****d****e**

1. $2 \overline{)437}$

$6 \overline{)739}$

$4 \overline{)979}$

$5 \overline{)994}$

$3 \overline{)596}$

2. $8 \overline{)899}$

$7 \overline{)804}$

$6 \overline{)879}$

$5 \overline{)734}$

$2 \overline{)753}$

3. $4 \overline{)595}$

$3 \overline{)748}$

$7 \overline{)978}$

$6 \overline{)887}$

$4 \overline{)759}$

4. $2 \overline{)537}$

$5 \overline{)687}$

$8 \overline{)897}$

$4 \overline{)635}$

$3 \overline{)836}$

5. $6 \overline{)689}$

$2 \overline{)379}$

$5 \overline{)748}$

$8 \overline{)907}$

$6 \overline{)987}$

Division Practice

Divide.

a**b****c****d****e**

1. $3 \overline{)746}$

$7 \overline{)796}$

$5 \overline{)893}$

$4 \overline{)943}$

$6 \overline{)676}$

2. $8 \overline{)978}$

$2 \overline{)337}$

$7 \overline{)957}$

$3 \overline{)446}$

$4 \overline{)538}$

3. $6 \overline{)759}$

$5 \overline{)684}$

$8 \overline{)894}$

$2 \overline{)487}$

$3 \overline{)953}$

4. $6 \overline{)945}$

$4 \overline{)629}$

$7 \overline{)879}$

$5 \overline{)947}$

$2 \overline{)951}$

5. $4 \overline{)739}$

$3 \overline{)647}$

$6 \overline{)857}$

$2 \overline{)859}$

$4 \overline{)938}$

Division Practice

Divide.

a**b****c****d****e**

1. $6 \overline{) 65}$

$9 \overline{) 94}$

$3 \overline{) 925}$

$7 \overline{) 564}$

$4 \overline{) 823}$

2. $5 \overline{) 253}$

$8 \overline{) 865}$

$2 \overline{) 841}$

$7 \overline{) 75}$

$6 \overline{) 364}$

3. $4 \overline{) 414}$

$5 \overline{) 254}$

$8 \overline{) 327}$

$3 \overline{) 623}$

$2 \overline{) 461}$

4. $7 \overline{) 423}$

$6 \overline{) 627}$

$5 \overline{) 529}$

$4 \overline{) 842}$

$3 \overline{) 961}$

5. $8 \overline{) 325}$

$7 \overline{) 738}$

$6 \overline{) 423}$

$2 \overline{) 241}$

$5 \overline{) 539}$

Dividing 4 Digits

$$8 \div 4 = 2$$

$$4 \times 2 = 8$$

$$9 \div 4 = 2$$

$$\text{remainder } 1$$

$$11 \div 4 = 2$$

$$\text{remainder } 3$$

$$37 \div 4 = 9$$

$$\text{remainder } 1$$

$$\begin{array}{r} 2 \\ 4 \overline{) 8917} \\ \underline{-8} \\ 09 \end{array}$$

divisor dividend

$$\begin{array}{r} 22 \\ 4 \overline{) 8917} \\ \underline{-8} \\ 09 \\ \underline{-8} \\ 11 \end{array}$$

$$\begin{array}{r} 222 \\ 4 \overline{) 8917} \\ \underline{-8} \\ 09 \\ \underline{-8} \\ 11 \\ \underline{-8} \\ 37 \end{array}$$

$$\begin{array}{r} 2229 \leftarrow \text{quotient} \\ 4 \overline{) 8917} \\ \underline{-8} \\ 09 \\ \underline{-8} \\ 11 \\ \underline{-8} \\ 37 \\ \underline{-36} \\ 1 \leftarrow \text{remainder} \end{array}$$

Divide.

a**b****c****d**

1. $3 \overline{) 4650}$

$6 \overline{) 3925}$

$8 \overline{) 1487}$

$2 \overline{) 9234}$

2. $7 \overline{) 6496}$

$4 \overline{) 8568}$

$7 \overline{) 1426}$

$3 \overline{) 3746}$

3. $5 \overline{) 8503}$

$9 \overline{) 6292}$

$4 \overline{) 3166}$

$2 \overline{) 2317}$

Division Practice

Divide.

a**b****c****d**

1. $2 \overline{) 3486}$

$4 \overline{) 8572}$

$6 \overline{) 3764}$

$5 \overline{) 5328}$

2. $3 \overline{) 2874}$

$2 \overline{) 8497}$

$7 \overline{) 8598}$

$2 \overline{) 8040}$

3. $4 \overline{) 2988}$

$6 \overline{) 8149}$

$7 \overline{) 5001}$

$3 \overline{) 6238}$

4. $5 \overline{) 7384}$

$8 \overline{) 4376}$

$2 \overline{) 4811}$

$4 \overline{) 1583}$

5. $6 \overline{) 7391}$

$3 \overline{) 6943}$

$7 \overline{) 4795}$

$5 \overline{) 5237}$

Division Practice

Divide.

a**b****c****d**

1. $8 \overline{) 3216}$

$4 \overline{) 1272}$

$7 \overline{) 1502}$

$3 \overline{) 296}$

2. $6 \overline{) 4811}$

$9 \overline{) 788}$

$5 \overline{) 554}$

$8 \overline{) 1143}$

3. $4 \overline{) 362}$

$3 \overline{) 1553}$

$6 \overline{) 5554}$

$7 \overline{) 487}$

4. $2 \overline{) 1694}$

$4 \overline{) 1550}$

$9 \overline{) 7155}$

$5 \overline{) 2093}$

5. $7 \overline{) 4778}$

$3 \overline{) 316}$

$6 \overline{) 483}$

$4 \overline{) 515}$

Division Practice

Divide.

a**b****c****d**

1. $5 \overline{)2013}$

$8 \overline{)1886}$

$9 \overline{)2591}$

$7 \overline{)3330}$

2. $2 \overline{)219}$

$3 \overline{)632}$

$5 \overline{)1835}$

$8 \overline{)567}$

3. $6 \overline{)6150}$

$4 \overline{)1278}$

$5 \overline{)4250}$

$2 \overline{)819}$

4. $9 \overline{)1123}$

$7 \overline{)2273}$

$8 \overline{)1126}$

$3 \overline{)8693}$

5. $4 \overline{)2086}$

$6 \overline{)2464}$

$9 \overline{)1088}$

$8 \overline{)9198}$

Division and Place Value

Use patterns of place value to help determine the divisor.

If, $8 \div \underline{2} = 4$

Then, using place value, you can find the divisor in greater numbers.

$80 \div \underline{2} = 40$ \longrightarrow $80 \div 2 = 40$

$800 \div \underline{2} = 400$ \longrightarrow $800 \div 2 = 400$

$8000 \div \underline{2} = 4000$ \longrightarrow $8000 \div 2 = 4000$

Fill in the missing numbers.

a

1. $7 \div \underline{\quad} = 1$
 $70 \div \underline{\quad} = 10$
 $700 \div \underline{\quad} = 100$
 $7000 \div \underline{\quad} = 1000$

2. $12 \div \underline{\quad} = 3$
 $120 \div \underline{\quad} = 30$
 $1200 \div \underline{\quad} = 300$
 $12000 \div \underline{\quad} = 3000$

3. $9 \div \underline{\quad} = 3$
 $90 \div \underline{\quad} = 30$
 $900 \div \underline{\quad} = 300$
 $9000 \div \underline{\quad} = 3000$

b

$6 \div \underline{\quad} = 2$
 $60 \div \underline{\quad} = 20$
 $600 \div \underline{\quad} = 200$
 $6000 \div \underline{\quad} = 2000$

$10 \div \underline{\quad} = 2$
 $100 \div \underline{\quad} = 20$
 $1000 \div \underline{\quad} = 200$
 $10000 \div \underline{\quad} = 2000$

$5 \div \underline{\quad} = 1$
 $50 \div \underline{\quad} = 10$
 $500 \div \underline{\quad} = 100$
 $5000 \div \underline{\quad} = 1000$

Division and Place Value

Divide.

a**b****c****d**

1. $3 \overline{)300}$

$2 \overline{)6000}$

$2 \overline{)20}$

$4 \overline{)800}$

2. $10 \overline{)400}$

$300 \overline{)9000}$

$40 \overline{)1200}$

$10 \overline{)100}$

3. $7 \overline{)140}$

$2 \overline{)80}$

$700 \overline{)1400}$

$40 \overline{)120}$

4. $3 \overline{)900}$

$600 \overline{)1800}$

$2000 \overline{)10000}$

$30 \overline{)600}$

5. $8 \overline{)1600}$

$20 \overline{)140}$

$90 \overline{)180}$

$30 \overline{)90}$

Division Practice

Divide.

a**b****c****d**

1. $3 \overline{)45}$

$9 \overline{)72}$

$2 \overline{)34}$

$4 \overline{)76}$

2. $6 \overline{)493}$

$3 \overline{)873}$

$7 \overline{)875}$

$5 \overline{)987}$

3. $7 \overline{)2598}$

$2 \overline{)5282}$

$6 \overline{)5631}$

$4 \overline{)9637}$

4. $6 \overline{)9832}$

$8 \overline{)5000}$

$5 \overline{)7004}$

$7 \overline{)5111}$

5. $5 \overline{)85}$

$8 \overline{)800}$

$5 \overline{)2515}$

$8 \overline{)9840}$

Estimating Quotients

$$7 \overline{)24}$$

$$\begin{array}{r} 3 \\ 7 \overline{)21} \\ -21 \\ \hline 0 \end{array}$$

Think of what you can round the dividend (24) to so that it is easy to mentally divide by the divisor (7). The quotient is 3.

quotient \longrightarrow

$$\begin{array}{r} 76 \\ 5 \overline{)378} \\ -35 \\ \hline 30 \\ -30 \\ \hline 0 \end{array}$$

Think of what you can round the dividend (378) to so that it is easy to mentally divide by the divisor (5).

Divide.

a

b

c

d

1. $3 \overline{)16}$

$7 \overline{)36}$

$3 \overline{)74}$

$4 \overline{)83}$

2. $4 \overline{)27}$

$6 \overline{)217}$

$8 \overline{)481}$

$7 \overline{)764}$

3. $9 \overline{)362}$

$2 \overline{)563}$

$4 \overline{)1378}$

$3 \overline{)4269}$

4. $8 \overline{)2448}$

$5 \overline{)9216}$

$9 \overline{)3502}$

$5 \overline{)7358}$

**Check What You Learned****Dividing through 4 Digits by 1 Digit**

Divide.

a**b****c****d****e**

1. $2 \overline{)32}$ $3 \overline{)9000}$ $3 \overline{)49}$ $8 \overline{)97}$ $2 \overline{)178}$

2. $4 \overline{)6121}$ $6 \overline{)798}$ $5 \overline{)557}$ $6 \overline{)636}$ $8 \overline{)889}$

3. $2 \overline{)96}$ $3 \overline{)87}$ $8 \overline{)1600}$ $3 \overline{)42}$ $7 \overline{)31}$

4. $8 \overline{)75}$ $2 \overline{)19}$ $8 \overline{)43}$ $9 \overline{)89}$ $3 \overline{)60}$

5. $3 \overline{)603}$ $5 \overline{)100}$ $6 \overline{)762}$ $7 \overline{)37}$ $2 \overline{)48}$



Check What You Know

Problem Solving: Dividing through 4 Digits by 1 Digit

Read the problem carefully and solve. Show your work under each question.

A bookstore needs to pack books in boxes to ship. Each box can only hold one type of book. Each type of book must be divided evenly between the boxes. There are 167 nonfiction books and 89 mystery books. There are 35 picture books and 108 fiction books.

1. If the mystery books are packed in 6 boxes, how many mystery books will be in each box? How many mystery books will be left over?

_____ mystery books

_____ books left over

2. If 8 picture books can fit into each box, how many boxes can they fill? How many total boxes will the store need to ship all of the picture books? Explain your answer.

_____ full boxes

_____ total number of boxes needed

3. The bookstore plans to use 7 boxes to ship the nonfiction books. How many nonfiction books will fit in each box? How many will be left over?

_____ nonfiction books

_____ books left over

4. The store only has 3 boxes left to ship all the fiction books. Will all the fiction books fit or will there be some left over? Explain your answer.

Dividing 2 Digits

Read the problem carefully and solve. Show your work under each question.

Two different soccer teams need to carpool to the next game. There are 16 players on Molly's team. Each car on Molly's team can hold 5 players. There are 18 players on Lian's team. Each car on Lian's team can hold 4 players. Lian's team has 4 cars.

Helpful Hint

If a number does not divide into another number evenly, there will be a **remainder** (r).

$$\begin{array}{r} 3 \text{ r } 1 \\ 7 \overline{) 22} \\ \underline{-21} \\ 1 \end{array}$$

1. How many cars can Molly's team fill? How many players will be left over?

_____ full cars

_____ player left

2. How many cars will Molly's team need to take all the players to the game? Explain your answer.

_____ cars

3. Does Lian's team have enough cars to take all their players to the game? If not, how many players still need a ride?

Dividing 3 Digits

Read the problem carefully and solve. Show your work under each question.

Natalia and Manuel have a large stamp collection. They organize their stamps into one album. They put the same number of each type of stamp on a page. Natalia and Manuel have 274 animal stamps, 108 sports stamps, 148 flower stamps, and 324 stamps of famous people and events.

Helpful Hint

Remember to write the first digit of the quotient in the correct spot.

$$\begin{array}{r} 62 \\ 7 \overline{) 434} \end{array}$$

Since $100 \times 7 = 700$ and 700 is greater than 437, there is no hundreds digit in the quotient.

1. Natalia wants to use 8 pages of the album for the animal stamps. How many animal stamps will be on each page? How many animal stamps will be left over?

_____ stamps on a page

_____ stamps left over

2. Manuel decides to use 4 pages of the album for sports stamps. How many sports stamps will be on each page? How many sports stamps will be left over?

_____ stamps on a page

_____ stamps left over

Dividing 4 Digits

Read the problem carefully and solve. Show your work under each question.

Middle City Hardware is having a big sale. The staff workers are putting tools and other items in groups for the sale.

-
1. Josie's boss gives her 3,258 bolts. Her boss says to put the bolts in bags of 9 bolts each. How many full bags of bolts will she have?

_____ bags

2. Chad has 1,137 screwdrivers. Chad puts them in sets of 4. How many screwdrivers will be left over when he is finished?

_____ left over

3. Special sale items are worth \$7,527 in all. The sale will last for 3 days. How much money will the store make per day if the sales are equal each day?

Division and Place Value

Solve each problem. Show your work under each question.

1. The cross-country team runs 70 miles a week. If they stop for a break every 7 miles, how many breaks do they take each week?

They take _____ breaks each week.

2. The pool's lap lane is 800 feet long. If a swimmer splits this length into 4 equal sections, how many feet will each section be?

Each section will be _____ feet.

3. The garden show is moving into a bigger area. The new area has 1,200 square feet of space for displays. There are 300 different displays, and each display will need the same amount of space. How many square feet does each display get?

Each display gets _____ square feet of space.

Division Practice

Solve each problem. Show your work under each question.

1. A boys' club picked up litter in the park. They collected 913 bags of litter. If each boy collected about the same amount, about how many bags did the 7 boys collect? How many extra bags were collected?

Each boy picked up about _____ bags.

There were _____ extra bags collected.

2. The school supply store received a shipment of 730 pens. If the pens are packed in 5 boxes, how many pens are in each box?

There are _____ pens in each box.

3. Taylor needs 612 more dollars to buy a plane ticket to visit his cousin in Australia. If he saves 9 dollars a day, how soon can he go to Australia?

He will have the rest of the money in _____ days.

Division Practice

Solve each problem. Show your work under each question.

1. The school office received 22 computers. If there are 9 classrooms receiving the computers, how many computers will go to each classroom? How many computers will be left?

Each classroom will receive _____ computers.

There will be _____ extra computers.

2. There are 60 summer jobs for lifeguards at the city pools. There will be 3 lifeguards at each city pool. How many city pools are there?

There are _____ city pools.

3. At the Hot Dog Shack, customers bought 27 hot dogs on Saturday. There were only 9 customers. How many hot dogs did each customer buy?

Each customer bought _____ hot dogs.

Division Practice

Solve each problem. Show your work under each question.

1. The school spirit club baked cakes for a charity event. There were 75 different types of cakes. Each baker baked the same number of cakes. If there were 5 bakers, how many cakes did each baker make?

Each baker made _____ cakes.

2. The Fish Shop is open 72 hours a week. The shop is open 6 days a week and the same number of hours each day. How many hours each day is the shop open?

The shop is open _____ hours a day.

3. The glee club needs to sell 382 tickets to win a trip. If there are 8 members who want to go on the trip, how many tickets does each member need to sell? How many extra tickets will be left?

Each member needs to sell _____ tickets.

There will be _____ extra tickets.

Estimating Quotients

Read the problem carefully and solve. Show your work under each question.

The Quick Haul Trucking Company makes local deliveries. The shipping manager divides all of the boxes into various shipments. Sometimes, the manager makes estimates for the shipments.

Helpful Hint

To estimate a quotient, round the dividend into a number that is easily divided by the divisor.

To estimate the quotient of 45 divided by 7, first round 45 into 42. Then, a good estimate of the quotient is 6.

1. Quick Haul delivers 133 boxes to 3 stores. Each store gets about the same number of boxes. Estimate the number of boxes going to each store.

About _____ boxes

2. Quick Haul trucks can carry 9 boxes of one size. There is a shipment of 83 boxes to deliver. Estimate the number of truckloads for the shipment.

About _____ truckloads

3. Quick Haul delivers 103 lamps to 7 stores. If each store gets about the same number of lamps, about how many lamps will each store get?

About _____ lamps



Check What You Learned

Problem Solving: Dividing through 4 Digits by 1 Digit

Read the problem carefully and solve. Show your work under each question.

Kenesha, Shawna, and Jake have postcard collections. They each plan to put their postcards into scrapbooks to organize them. Kenesha has 144 postcards, Shawna has 59 postcards, and Jake has 98 postcards.

1. Shawna only wants to use 9 pages of her scrapbook. How many postcards should she put on each page? How many will be left over?

_____ postcards

_____ postcards left over
2. Jake can fit 4 postcards on each page of his scrapbook. How many pages can he fill with his postcards? If he wants to put all of his postcards in the scrapbook, how many total pages will he need to use?

_____ full pages

_____ total pages needed
3. Kenesha plans to put 8 postcards on each page of her scrapbook. How many pages can she fill? How many postcards will be left over?

_____ pages

_____ postcards left over
4. Kenesha and Shawna decide to combine their postcard collections to make a collage. Each girl will get half of the total number of postcards. How many postcards will each girl get to use in the collage? How many will be left over?

_____ postcards

_____ postcard(s) left over

Final Test Chapters 1–4

Divide.

a**b****c****d****e**

1. $9 \overline{)81}$

$7 \overline{)56}$

$8 \overline{)48}$

$8 \overline{)160}$

$7 \overline{)42}$

2. $8 \overline{)24}$

$5 \overline{)35}$

$7 \overline{)28}$

$6 \overline{)54}$

$9 \overline{)72}$

3. $3 \overline{)330}$

$2 \overline{)642}$

$7 \overline{)721}$

$4 \overline{)6484}$

$8 \overline{)864}$

4. $8 \overline{)724}$

$7 \overline{)639}$

$5 \overline{)1000}$

$6 \overline{)247}$

$2 \overline{)876}$

5. $9 \overline{)8458}$

$7 \overline{)807}$

$6 \overline{)684}$

$3 \overline{)949}$

$4 \overline{)2713}$

6. $9 \overline{)908}$

$2 \overline{)510}$

$4 \overline{)648}$

$8 \overline{)7888}$

$6 \overline{)1800}$

Final Test Chapters 1–4

Divide.

a**b****c****d****e**

7. $9 \overline{)81}$

$7 \overline{)56}$

$8 \overline{)48}$

$8 \overline{)160}$

$7 \overline{)42}$

8. $8 \overline{)24}$

$5 \overline{)35}$

$7 \overline{)28}$

$6 \overline{)54}$

$9 \overline{)72}$

9. $3 \overline{)330}$

$2 \overline{)642}$

$7 \overline{)721}$

$4 \overline{)6484}$

$8 \overline{)864}$

10. $8 \overline{)724}$

$7 \overline{)639}$

$5 \overline{)1000}$

$6 \overline{)247}$

$2 \overline{)876}$

Fill in the missing numbers.

a**b**

11. $9 \div \underline{\hspace{2cm}} = 1$

$4 \div \underline{\hspace{2cm}} = 2$

$90 \div \underline{\hspace{2cm}} = 10$

$40 \div \underline{\hspace{2cm}} = 20$

$900 \div \underline{\hspace{2cm}} = 100$

$400 \div \underline{\hspace{2cm}} = 200$

$9000 \div \underline{\hspace{2cm}} = 1000$

$4000 \div \underline{\hspace{2cm}} = 2000$

12. $16 \div \underline{\hspace{2cm}} = 4$

$15 \div \underline{\hspace{2cm}} = 5$

$160 \div \underline{\hspace{2cm}} = 40$

$1500 \div \underline{\hspace{2cm}} = 500$

$1600 \div \underline{\hspace{2cm}} = 400$

$15000 \div \underline{\hspace{2cm}} = 5000$

$16000 \div \underline{\hspace{2cm}} = 4000$

$150000 \div \underline{\hspace{2cm}} = 50000$

Final Test Chapters 1–4

Divide.

a**b****c****d****e**

13. $8 \overline{)87}$

$5 \overline{)53}$

$4 \overline{)842}$

$7 \overline{)426}$

$3 \overline{)92}$

14. $6 \overline{)484}$

$8 \overline{)839}$

$2 \overline{)615}$

$9 \overline{)98}$

$6 \overline{)543}$

15. $7 \overline{)73}$

$4 \overline{)483}$

$3 \overline{)272}$

$5 \overline{)517}$

$7 \overline{)634}$

16. $2 \overline{)815}$

$6 \overline{)364}$

$4 \overline{)323}$

$8 \overline{)726}$

$3 \overline{)631}$

Find the rule and complete each table.

a**17.**

In	Out
32	8
28	
8	2
36	
40	

b

In	Out
35	7
45	
10	2
30	
5	

c

In	Out
56	
16	2
40	
64	
72	9

Final Test Chapters 1–4

Solve each problem. Show your work under each question.

- 18.** A restaurant has 245 seats with 5 seats at each table. How many tables does the restaurant have?

The restaurant has _____ tables.

- 19.** Homer buys 3 newspapers every week. If Homer has 627 newspapers, how many weeks has he been buying them?

He has been buying newspapers for _____ weeks.

- 20.** A group of 30 children started a lawn mowing company at the beginning of the summer. At the end of the summer, the company had mowed 600 lawns. How many lawns did each child mow if each mowed an equal number?

Each child mowed _____ lawns.

- 21.** The Wilkinson family drove 1,374 miles in 9 days. How many miles did the Wilkinsons drive each day if they drove the same amount? How many more miles did they drive on the last day?

The Wilkinson family drove _____ miles each day.

They drove _____ extra miles on the last day.

Final Test Chapters 1–4

Solve each problem. Show your work under each question.

- 22.** Ms. Garrett had 40 guests at her birthday party. She cut her cake into 88 slices. Each guest ate 2 pieces of cake. How many slices were left?

There were _____ slices left.

- 23.** Lucy babysits for 2 families. She works the same number of hours each month for each family. If she worked 76 hours last month, how many hours did she work for each family?

She worked _____ hours for each family.

- 24.** Tom and Jose enjoy playing video games. Together, they play 10 hours a week. If they play 5 days a week for the same number of hours each day, how many hours do they both play together?

They play together _____ hours a day.

- 25.** At the basketball tournament, 28 people signed up to play. If there were 4 teams, how many players were on a team? Write a division equation. Then, solve.

There were _____ players on each team.

Final Test Chapters 1–4

Solve each problem. Show your work under each question.

- 26.** Howard Jackson scored 158 points this season playing basketball. He played in 7 games and scored about the same number of points in each game. About how many points did he score in each game?

He scored about _____ points in each game.

- 27.** Miss Gomez drove 256 miles in 4 hours. She drove the same number of miles each hour. How many miles did she drive in 1 hour?

She drove _____ miles in 1 hour.

- 28.** In the past 6 weeks, Jackson worked on 738 computers. Each week, he worked on the same number of computers. How many computers did he work on every week?

He worked on _____ computers every week.

- 29.** At baseball practice, 1,325 pitches were thrown to the players. If 5 players got the same number of pitches, how many pitches did each player get?

Each player got _____ pitches.

Scoring Record for Pretests, Posttests, Mid-Test, and Final Test

Pretests, Posttests, Mid-Test, and Final Test	Your Score	Performance			
		Excellent	Very Good	Fair	Needs Improvement
Chapter 1 Pretest	_____ of 50	48–50	41–47	30–40	29 or fewer
Chapter 1 Posttest	_____ of 50	48–50	41–47	30–40	29 or fewer
Chapter 2 Pretest	_____ of 5	5	4	3	2 or fewer
Chapter 2 Posttest	_____ of 5	5	4	3	2 or fewer
Chapter 3 Pretest	_____ of 25	24–25	20–23	15–19	14 or fewer
Chapter 3 Posttest	_____ of 25	24–24	20–23	15–19	14 or fewer
Chapter 4 Pretest	_____ of 8	7	6	5	4 or fewer
Chapter 4 Posttest	_____ of 8	7	6	5	4 or fewer
Mid-Test	_____ of 55	52–55	44–51	33–43	32 or fewer
Final Test	_____ of 109	104–109	88–103	66–87	65 or fewer

Record your test score in the Your Score column. See where your score falls in the Performance columns. Your score is based on the total number of required responses. If your score is fair or needs improvement, review the chapter material.

Answer Key

Check What You Know
Division Facts through $81 \div 9$

Divide.

a	b	c	d	e
1. $3 \overline{)15}$	$7 \overline{)49}$	$9 \overline{)27}$	$5 \overline{)45}$	$7 \overline{)21}$
2. $3 \overline{)18}$	$7 \overline{)42}$	$9 \overline{)81}$	$7 \overline{)56}$	$6 \overline{)30}$
3. $4 \overline{)36}$	$4 \overline{)16}$	$5 \overline{)40}$	$2 \overline{)10}$	$4 \overline{)36}$
4. $9 \overline{)18}$	$5 \overline{)35}$	$7 \overline{)28}$	$2 \overline{)6}$	$4 \overline{)24}$
5. $5 \overline{)15}$	$3 \overline{)21}$	$9 \overline{)54}$	$2 \overline{)8}$	$2 \overline{)14}$
6. $6 \overline{)36}$	$6 \overline{)48}$	$8 \overline{)32}$	$3 \overline{)24}$	$3 \overline{)9}$
7. $8 \overline{)72}$	$8 \overline{)64}$	$5 \overline{)25}$	$9 \overline{)1}$	$3 \overline{)0}$
8. $7 \overline{)20}$	$5 \overline{)20}$	$4 \overline{)36}$	$8 \overline{)56}$	$2 \overline{)12}$
9. $2 \overline{)18}$	$3 \overline{)27}$	$4 \overline{)28}$	$2 \overline{)2}$	$2 \overline{)8}$
10. $3 \overline{)15}$	$9 \overline{)63}$	$6 \overline{)48}$	$7 \overline{)14}$	$9 \overline{)27}$

Spectrum Division Grade 4 Chapter 1
Division Facts through $81 \div 9$

5

Dividing through $45 \div 5$

Divide.

divisor $\rightarrow 5 \overline{)45}$ quotient \leftarrow dividend

To check your answer, do the inverse operation.
If $45 \div 5 = 9$, then $5 \times 9 = 45$ must be true.

Using the division table, find 45 in the 5 column. The quotient is named at the beginning of the row.

Complete the following.

a	b	c
1. $5 \overline{)15}$	$4 \overline{)16}$	$4 \overline{)36}$
2. $2 \overline{)18}$	$3 \overline{)18}$	$3 \overline{)27}$
3. $5 \overline{)45}$	$3 \overline{)15}$	$5 \overline{)30}$

Spectrum Division Grade 4 Chapter 1
Division Facts through $81 \div 9$

6

Dividing through $45 \div 5$

Divide.

a	b	c	d	e
1. $3 \overline{)21}$	$2 \overline{)10}$	$2 \overline{)16}$	$2 \overline{)12}$	$9 \overline{)45}$
2. $5 \overline{)35}$	$2 \overline{)18}$	$5 \overline{)40}$	$5 \overline{)30}$	$4 \overline{)24}$
3. $3 \overline{)24}$	$4 \overline{)20}$	$3 \overline{)9}$	$4 \overline{)12}$	$2 \overline{)14}$
4. $4 \overline{)4}$	$5 \overline{)15}$	$5 \overline{)10}$	$4 \overline{)0}$	$3 \overline{)6}$

Complete the following.

a	b	c
5. $4 \times 6 = 24$ so $6 \overline{)24}$	$3 \times 8 = 24$ so $8 \overline{)24}$	$5 \times 6 = 30$ so $6 \overline{)30}$

Spectrum Division Grade 4 Chapter 1
Division Facts through $81 \div 9$

7

Dividing through $63 \div 7$

Divide.

divisor $\rightarrow 7 \overline{)63}$ quotient \leftarrow dividend

To check your answer, do the inverse operation.
If $63 \div 7 = 9$, then $7 \times 9 = 63$ must be true.

Using the division table, find 63 in the 7 column. The quotient is named at the end of the row.

Complete the following.

a	b	c
4. $7 \times 6 = 42$ so $6 \overline{)42}$	$5 \times 9 = 45$ so $9 \overline{)45}$	$8 \times 7 = 56$ so $7 \overline{)56}$

Spectrum Division Grade 4 Chapter 1
Division Facts through $81 \div 9$

8

Dividing through $63 \div 7$

Divide.

a	b	c	d	e
1. $2 \overline{)16}$	$6 \overline{)54}$	$5 \overline{)25}$	$5 \overline{)10}$	$7 \overline{)21}$
2. $7 \overline{)28}$	$6 \overline{)42}$	$7 \overline{)63}$	$6 \overline{)24}$	$4 \overline{)20}$
3. $7 \overline{)35}$	$5 \overline{)30}$	$4 \overline{)12}$	$4 \overline{)16}$	$7 \overline{)7}$
4. $5 \overline{)15}$	$7 \overline{)42}$	$3 \overline{)21}$	$6 \overline{)12}$	$6 \overline{)30}$

Complete the following.

a	b	c
5. $6 \times 9 = 54$ so $9 \overline{)54}$	$7 \times 4 = 28$ so $4 \overline{)28}$	$7 \times 9 = 63$ so $9 \overline{)63}$

Spectrum Division Grade 4 Chapter 1
Division Facts through $81 \div 9$

9

Dividing through $81 \div 9$

Divide.

divisor $\rightarrow 9 \overline{)81}$ quotient \leftarrow dividend

To check your answer, do the inverse operation.
If $81 \div 9 = 9$, then $9 \times 9 = 81$ must be true.

Using the division table, find 81 in the 9 column. The quotient is named at the end of the row.

Complete the following.

a	b	c
4. $7 \times 5 = 35$ so $5 \overline{)35}$	$8 \times 6 = 48$ so $8 \overline{)48}$	$9 \times 6 = 54$ so $6 \overline{)54}$

Spectrum Division Grade 4 Chapter 1
Division Facts through $81 \div 9$

10

Answer Key

NAME _____ SCORE ☐ / 23

Dividing through 81 ÷ 9

Divide.

a b c d e

1. $7 \overline{)42}$ $5 \overline{)45}$ $8 \overline{)32}$ $7 \overline{)63}$ $8 \overline{)64}$

2. $6 \overline{)36}$ $4 \overline{)32}$ $7 \overline{)28}$ $9 \overline{)0}$ $4 \overline{)28}$

3. $9 \overline{)45}$ $5 \overline{)30}$ $4 \overline{)12}$ $5 \overline{)25}$ $7 \overline{)14}$

4. $9 \overline{)9}$ $8 \overline{)40}$ $8 \overline{)48}$ $6 \overline{)42}$ $3 \overline{)27}$

Complete the following.

a b c

5. $\begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array}$ so $4 \overline{)36}$ $\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$ so $9 \overline{)63}$ $\begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array}$ so $8 \overline{)48}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 ÷ 9 11

11

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a b c d e

1. $8 \overline{)56}$ $6 \overline{)24}$ $2 \overline{)18}$ $5 \overline{)35}$ $7 \overline{)42}$

2. $6 \overline{)48}$ $6 \overline{)30}$ $8 \overline{)72}$ $6 \overline{)36}$ $9 \overline{)81}$

3. $9 \overline{)54}$ $3 \overline{)21}$ $7 \overline{)28}$ $3 \overline{)18}$ $2 \overline{)16}$

4. $5 \overline{)45}$ $9 \overline{)36}$ $6 \overline{)42}$ $8 \overline{)64}$ $7 \overline{)63}$

5. $3 \overline{)24}$ $9 \overline{)27}$ $5 \overline{)20}$ $7 \overline{)49}$ $5 \overline{)25}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 ÷ 9 12

12

NAME _____ SCORE ☐ / 29

Division Practice

Divide.

a b c d e

1. $3 \overline{)9}$ $2 \overline{)4}$ $3 \overline{)6}$ $4 \overline{)8}$ $1 \overline{)7}$

2. $3 \overline{)0}$ $2 \overline{)10}$ $7 \overline{)14}$ $2 \overline{)6}$ $3 \overline{)54}$

3. $1 \overline{)5}$ $3 \overline{)12}$ $6 \overline{)12}$ $2 \overline{)2}$ $5 \overline{)10}$

4. $5 \overline{)25}$ $4 \overline{)16}$ $3 \overline{)15}$ $8 \overline{)72}$ $2 \overline{)2}$

Find the rule and complete each table.

5. a b c

In	Out
21	3
35	5
63	9
49	7
14	2

divide by 7

In	Out
12	6
10	5
14	7
18	9
22	11

divide by 2

In	Out
81	9
36	4
54	6
72	8
9	1

divide by 9

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 ÷ 9 13

13

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a b c d e

1. $4 \overline{)28}$ $4 \overline{)4}$ $2 \overline{)18}$ $6 \overline{)18}$ $9 \overline{)63}$

2. $7 \overline{)63}$ $3 \overline{)27}$ $4 \overline{)32}$ $8 \overline{)64}$ $8 \overline{)48}$

3. $4 \overline{)24}$ $9 \overline{)72}$ $8 \overline{)32}$ $5 \overline{)20}$ $9 \overline{)45}$

4. $6 \overline{)24}$ $7 \overline{)49}$ $9 \overline{)81}$ $5 \overline{)30}$ $3 \overline{)21}$

5. $8 \overline{)16}$ $2 \overline{)8}$ $7 \overline{)28}$ $7 \overline{)42}$ $6 \overline{)48}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 ÷ 9 14

14

NAME _____ SCORE ☐ / 29

Division Practice

Divide.

a b c d e

1. $5 \overline{)30}$ $7 \overline{)21}$ $4 \overline{)28}$ $9 \overline{)63}$ $5 \overline{)35}$

2. $1 \overline{)9}$ $4 \overline{)24}$ $8 \overline{)32}$ $6 \overline{)36}$ $2 \overline{)14}$

3. $7 \overline{)56}$ $4 \overline{)36}$ $9 \overline{)27}$ $6 \overline{)42}$ $8 \overline{)8}$

4. $3 \overline{)24}$ $7 \overline{)63}$ $9 \overline{)54}$ $3 \overline{)27}$ $1 \overline{)7}$

5. $8 \overline{)24}$ $2 \overline{)16}$ $7 \overline{)42}$ $6 \overline{)54}$ $8 \overline{)56}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 ÷ 9 15

15

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a b c d e

1. $3 \overline{)15}$ $8 \overline{)40}$ $3 \overline{)21}$ $9 \overline{)36}$ $4 \overline{)20}$

2. $8 \overline{)32}$ $9 \overline{)9}$ $5 \overline{)35}$ $9 \overline{)81}$ $6 \overline{)36}$

3. $4 \overline{)32}$ $8 \overline{)64}$ $1 \overline{)4}$ $7 \overline{)42}$ $7 \overline{)28}$

4. $6 \overline{)30}$ $3 \overline{)24}$ $6 \overline{)48}$ $9 \overline{)54}$ $3 \overline{)18}$

5. $8 \overline{)72}$ $6 \overline{)24}$ $8 \overline{)56}$ $7 \overline{)35}$ $4 \overline{)28}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 ÷ 9 16

16

Answer Key

NAME _____ SCORE ☐ / 29

Division Practice

Divide.

a	b	c	d	e
1. $6 \overline{)48}$	$7 \overline{)28}$	$7 \overline{)42}$	$8 \overline{)56}$	$6 \overline{)24}$
2. $5 \overline{)35}$	$8 \overline{)64}$	$6 \overline{)30}$	$9 \overline{)63}$	$7 \overline{)49}$
3. $8 \overline{)40}$	$9 \overline{)54}$	$4 \overline{)32}$	$5 \overline{)45}$	$7 \overline{)56}$
4. $4 \overline{)36}$	$5 \overline{)30}$	$7 \overline{)63}$	$8 \overline{)72}$	$7 \overline{)35}$

Find the rule and complete each table.

a	b	c																																				
5. <table border="1"> <tr><th>In</th><th>Out</th></tr> <tr><td>12</td><td>4</td></tr> <tr><td>30</td><td>10</td></tr> <tr><td>21</td><td>7</td></tr> <tr><td>18</td><td>6</td></tr> <tr><td>9</td><td>3</td></tr> </table>	In	Out	12	4	30	10	21	7	18	6	9	3	<table border="1"> <tr><th>In</th><th>Out</th></tr> <tr><td>32</td><td>4</td></tr> <tr><td>48</td><td>6</td></tr> <tr><td>16</td><td>2</td></tr> <tr><td>56</td><td>7</td></tr> <tr><td>24</td><td>3</td></tr> </table>	In	Out	32	4	48	6	16	2	56	7	24	3	<table border="1"> <tr><th>In</th><th>Out</th></tr> <tr><td>24</td><td>6</td></tr> <tr><td>36</td><td>9</td></tr> <tr><td>12</td><td>3</td></tr> <tr><td>28</td><td>7</td></tr> <tr><td>20</td><td>5</td></tr> </table>	In	Out	24	6	36	9	12	3	28	7	20	5
In	Out																																					
12	4																																					
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In	Out																																					
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48	6																																					
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56	7																																					
24	3																																					
In	Out																																					
24	6																																					
36	9																																					
12	3																																					
28	7																																					
20	5																																					

divide by 3 divide by 8 divide by 4

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 \div 9 17

17

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $6 \overline{)48}$	$4 \overline{)32}$	$6 \overline{)36}$	$7 \overline{)42}$	$7 \overline{)28}$
2. $9 \overline{)45}$	$8 \overline{)56}$	$6 \overline{)30}$	$9 \overline{)54}$	$7 \overline{)49}$
3. $5 \overline{)35}$	$6 \overline{)24}$	$9 \overline{)36}$	$8 \overline{)40}$	$9 \overline{)63}$
4. $7 \overline{)21}$	$6 \overline{)54}$	$4 \overline{)20}$	$8 \overline{)32}$	$7 \overline{)56}$
5. $3 \overline{)21}$	$5 \overline{)40}$	$5 \overline{)20}$	$5 \overline{)45}$	$7 \overline{)35}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 \div 9 18

18

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $4 \overline{)12}$	$3 \overline{)15}$	$2 \overline{)18}$	$6 \overline{)24}$	$3 \overline{)21}$
2. $5 \overline{)25}$	$4 \overline{)16}$	$5 \overline{)20}$	$7 \overline{)14}$	$8 \overline{)18}$
3. $4 \overline{)32}$	$6 \overline{)30}$	$3 \overline{)27}$	$8 \overline{)16}$	$8 \overline{)24}$
4. $9 \overline{)18}$	$4 \overline{)24}$	$5 \overline{)5}$	$7 \overline{)28}$	$1 \overline{)5}$
5. $4 \overline{)36}$	$1 \overline{)9}$	$7 \overline{)21}$	$5 \overline{)15}$	$9 \overline{)36}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 \div 9 19

19

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $4 \overline{)36}$	$6 \overline{)54}$	$4 \overline{)8}$	$8 \overline{)16}$	$2 \overline{)12}$
2. $6 \overline{)18}$	$9 \overline{)81}$	$4 \overline{)4}$	$6 \overline{)30}$	$3 \overline{)9}$
3. $7 \overline{)14}$	$3 \overline{)21}$	$5 \overline{)40}$	$3 \overline{)24}$	$4 \overline{)16}$
4. $1 \overline{)5}$	$3 \overline{)6}$	$5 \overline{)10}$	$4 \overline{)12}$	$5 \overline{)30}$
5. $7 \overline{)49}$	$9 \overline{)63}$	$4 \overline{)32}$	$2 \overline{)14}$	$1 \overline{)8}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 \div 9 20

20

NAME _____ SCORE ☐ / 29

Division Practice

Divide.

a	b	c	d	e
1. $5 \overline{)20}$	$1 \overline{)8}$	$7 \overline{)7}$	$3 \overline{)27}$	$5 \overline{)35}$
2. $8 \overline{)40}$	$7 \overline{)21}$	$9 \overline{)45}$	$7 \overline{)42}$	$8 \overline{)64}$
3. $2 \overline{)18}$	$3 \overline{)15}$	$6 \overline{)12}$	$6 \overline{)24}$	$8 \overline{)48}$
4. $6 \overline{)6}$	$2 \overline{)8}$	$9 \overline{)36}$	$4 \overline{)20}$	$2 \overline{)16}$

Find the rule and complete each table.

a	b	c																																		
5. <table border="1"> <tr><th>In</th><th>Out</th></tr> <tr><td>30</td><td>6</td></tr> <tr><td>40</td><td>8</td></tr> <tr><td>25</td><td>5</td></tr> <tr><td>45</td><td>9</td></tr> <tr><td>20</td><td>4</td></tr> </table>	In	Out	30	6	40	8	25	5	45	9	20	4	<table border="1"> <tr><th>In</th><th>Out</th></tr> <tr><td>8</td><td>1</td></tr> <tr><td>64</td><td>8</td></tr> <tr><td>24</td><td>3</td></tr> <tr><td>56</td><td>7</td></tr> <tr><td>40</td><td>5</td></tr> </table>	In	Out	8	1	64	8	24	3	56	7	40	5	<table border="1"> <tr><th>In</th><th>Out</th></tr> <tr><td>36</td><td>6</td></tr> <tr><td>18</td><td>3</td></tr> <tr><td>54</td><td>9</td></tr> <tr><td>12</td><td>2</td></tr> </table>	In	Out	36	6	18	3	54	9	12	2
In	Out																																			
30	6																																			
40	8																																			
25	5																																			
45	9																																			
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40	5																																			
In	Out																																			
36	6																																			
18	3																																			
54	9																																			
12	2																																			

divide by 5 divide by 8 divide by 6

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 \div 9 21

21

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $1 \overline{)4}$	$2 \overline{)6}$	$9 \overline{)63}$	$7 \overline{)42}$	$5 \overline{)20}$
2. $9 \overline{)54}$	$9 \overline{)9}$	$4 \overline{)12}$	$1 \overline{)6}$	$9 \overline{)36}$
3. $8 \overline{)16}$	$5 \overline{)25}$	$2 \overline{)12}$	$4 \overline{)8}$	$3 \overline{)6}$
4. $8 \overline{)8}$	$6 \overline{)30}$	$6 \overline{)18}$	$6 \overline{)54}$	$9 \overline{)27}$
5. $2 \overline{)14}$	$2 \overline{)10}$	$1 \overline{)3}$	$4 \overline{)20}$	$3 \overline{)18}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 \div 9 22

22

Answer Key

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $8 \overline{) 72}$	2. $2 \overline{) 6}$	3. $7 \overline{) 56}$	4. $3 \overline{) 24}$	5. $4 \overline{) 32}$
6. $7 \overline{) 63}$	7. $4 \overline{) 16}$	8. $8 \overline{) 32}$	9. $5 \overline{) 30}$	10. $2 \overline{) 8}$
11. $7 \overline{) 7}$	12. $8 \overline{) 24}$	13. $3 \overline{) 27}$	14. $6 \overline{) 6}$	15. $1 \overline{) 8}$
16. $5 \overline{) 35}$	17. $6 \overline{) 42}$	18. $6 \overline{) 36}$	19. $8 \overline{) 64}$	20. $3 \overline{) 21}$

Find the rule and complete each table.

a		b		c	
In	Out	In	Out	In	Out
18	2	21	7	7	1
45	5	6	2	42	6
63	7	24	8	35	5
36	4	27	9	56	8
27	3	15	5	49	7

divide by 9 divide by 3 divide by 7

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 $\div 9$ 23

23

NAME _____

Check What You Learned

Division Facts through 81 $\div 9$

Divide.

a	b	c	d	e
1. $3 \overline{) 18}$	2. $9 \overline{) 27}$	3. $7 \overline{) 7}$	4. $8 \overline{) 64}$	5. $5 \overline{) 40}$
6. $9 \overline{) 72}$	7. $6 \overline{) 36}$	8. $1 \overline{) 6}$	9. $7 \overline{) 21}$	10. $4 \overline{) 28}$
11. $5 \overline{) 25}$	12. $8 \overline{) 64}$	13. $9 \overline{) 54}$	14. $5 \overline{) 35}$	15. $3 \overline{) 12}$
16. $7 \overline{) 49}$	17. $9 \overline{) 9}$	18. $7 \overline{) 21}$	19. $2 \overline{) 18}$	20. $6 \overline{) 48}$
21. $4 \overline{) 16}$	22. $4 \overline{) 20}$	23. $9 \overline{) 36}$	24. $8 \overline{) 56}$	25. $7 \overline{) 42}$
26. $0 \overline{) 0}$	27. $4 \overline{) 32}$	28. $9 \overline{) 81}$	29. $5 \overline{) 10}$	30. $7 \overline{) 49}$
31. $8 \overline{) 32}$	32. $9 \overline{) 54}$	33. $6 \overline{) 48}$	34. $3 \overline{) 24}$	35. $4 \overline{) 24}$
36. $9 \overline{) 45}$	37. $3 \overline{) 27}$	38. $5 \overline{) 30}$	39. $6 \overline{) 42}$	40. $2 \overline{) 14}$
41. $8 \overline{) 40}$	42. $9 \overline{) 63}$	43. $2 \overline{) 14}$	44. $3 \overline{) 9}$	45. $7 \overline{) 56}$
46. $8 \overline{) 48}$	47. $7 \overline{) 7}$	48. $2 \overline{) 8}$	49. $1 \overline{) 9}$	50. $7 \overline{) 28}$

Spectrum Division Chapter 1
Grade 4 Division Facts through 81 $\div 9$ 24

24

NAME _____

Check What You Know

Problem Solving: Division Facts through 81 $\div 9$

Read the problem carefully and solve. Show your work under each question.

Darnell collects stickers. He wants to organize them in a sticker book. He plans to put the same number of stickers on each page. Darnell has 24 sports stickers, 81 animal stickers, 36 fuzzy stickers, and 63 scratch-and-sniff stickers.

- Darnell can fit 9 animal stickers on a page. How many pages will he use for his animal stickers?
_____ pages
- Darnell puts all of his scratch-and-sniff stickers on 7 pages. He puts the same number of stickers on each page. How many stickers are on each page?
_____ stickers
- Darnell fits all of his sports stickers onto 3 pages. If each page has the same number of stickers, how many stickers are on each page? What multiplication sentence can Darnell use to check his division?
_____ stickers
 $3 \times 8 = 24$
- How many pages will Darnell use for his fuzzy stickers if he puts 6 fuzzy stickers on each page?
_____ pages

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 $\div 9$ 25

25

NAME _____ SCORE ☐ / 3

Dividing through 45 $\div 5$

Read the problem carefully and solve. Show your work under each question.

Carolyn helps get 4 sailboats ready for a sailing class. She divides the supplies evenly between each sailboat. She has 8 sails and 20 life jackets. All of the sailboats need new ropes for their sails. There are 16 pieces of rope.

Helpful Hint
The division sentence $16 \div 2 = 8$ can also be written as:
quotient $\rightarrow 8$
divisor $\rightarrow 2 \overline{) 16}$ dividend

- Carolyn puts the same number of sails on each boat. How many sails does she put on each sailboat?
_____ 2 _____ sails
- The pieces of rope are evenly divided among the boats. How many pieces of rope does each sailboat get?
_____ 4 _____ pieces of rope
- Carolyn puts the same number of life jackets on each boat. How many life jackets does she put on each boat?
_____ 5 _____ life jackets

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 $\div 9$ 26

26

NAME _____ SCORE ☐ / 3

Dividing through 63 $\div 7$

Read the problem carefully and solve. Show your work under each question.

Michael coaches a tennis program at a summer camp. He divides the campers into 2 teams, beginners and advanced. He has 54 tennis balls to use with the beginner team and 18 balls to use with the advanced team. He always divides the tennis balls evenly between the groups within each team.

- Michael divides the beginners into 6 groups for a practice drill. How many tennis balls does each group get?
_____ 9 _____ tennis balls
- Michael divides the advanced players into 6 groups to practice serving. How many tennis balls does each group get?
_____ 8 _____ tennis balls
- The beginners lost 5 tennis balls. Michael divides the players into 7 groups for the next activity. How many tennis balls will each group get?
_____ 7 _____ tennis balls

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 $\div 9$ 27

27

NAME _____ SCORE ☐ / 4

Dividing through 81 $\div 9$

Read the problem carefully and solve. Show your work under each question.

Carla fills baskets with flowers for her mom's surprise birthday party. Each of the 8 tables will get a basket. There are 72 pink flowers, 56 yellow flowers, and 64 white flowers. Carla wants to divide the flowers evenly between the baskets.

Helpful Hint
When solving word problems, write an equation to help you find the answer. If you know there are 63 total items to be equally divided between 9 people and you want to know how many items each person gets, you can write the problem like this:
 $63 \div x = 9$
Then, find x by finding the number that makes 63 when multiplied by 9.
 $9 \times 7 = 63$ $x = 7$

- Carla evenly divides the pink flowers among the baskets. How many pink flowers are in each basket?
_____ 9 _____ pink flowers
- Carla notices 16 of the white flowers are too wilted to use. If Carla throws those flowers away, how many white flowers are in each basket? Write a division equation. Then, solve.
 $40 \div x = 8$ _____ 5 _____ white flowers
- After Carla evenly divides the yellow flowers between the baskets, she wants to check to make sure she divided correctly. What multiplication sentence can Carla use to check her work?
 $7 \times 8 = 56$

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 $\div 9$ 28

28

Answer Key

NAME _____ SCORE ☐ / 3

Division Practice

Read the problem carefully and solve. Show your work under each question.

Appleton School is having a cake and cookie sale. Students are helping to bake the cakes and cookies. They measure and mix the recipes.

1. Delores divides flour into batches to make cakes. She has 18 cups of flour. Each cake takes 2 cups. How many cakes can she make?

_____ 9 _____ cakes

2. Ella has 21 teaspoons of vanilla. Each batch of cookies takes 3 teaspoons. How many batches of cookies can Ella make from this much vanilla?

_____ 7 _____ batches

3. Each batch of cookies contains 8 tablespoons of chopped pecans. Marty has 40 tablespoons of chopped pecans. How many batches of cookies can she make with the pecans?

_____ 5 _____ batches

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 ÷ 9 29

29

NAME _____ SCORE ☐ / 3

Division Practice

Solve each problem. Show your work under each question.

1. Mrs. Blair is planning a yard party. Her big punch bowl holds 40 glasses of punch. If she wants to allow 5 glasses for each guest, how many guests will the punch bowl serve?

The punch bowl will serve _____ 8 _____ guests.

2. At the rodeo, 32 people signed up for bronco riding. The 4 horses will give the same number of rides. How many rides will each horse give? Write a division equation. Then, solve.

_____ $32 \div x = 4$ _____

Each horse will give _____ 8 _____ rides.

3. Mr. Ferris is packing to move to a new house. He has 35 pairs of shoes. He can pack 7 pairs of shoes in a box. How many boxes will he need for his shoes?

Mr. Ferris will need _____ 5 _____ boxes for his shoes.

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 ÷ 9 30

30

NAME _____ SCORE ☐ / 3

Division Practice

Solve each problem. Show your work under each question.

1. At the local fair, 72 people waited in line for a boat ride. The boat can hold 8 people. How many trips will the boat have to take for everyone to get a ride?

The boat will have to take _____ 9 _____ trips.

2. The Davis brothers found 27 cars when they cleaned out their toy closet. They want to give the same number of cars to each of their 3 cousins. How many cars will each cousin get?

Each cousin will get _____ 9 _____ toy cars.

3. Mrs. Gomez sold 18 pet lizards this week at her pet store. If 9 customers bought the same number of lizards, how many lizards did each person take home? Write a division equation. Then, solve.

_____ $18 \div x = 9$ _____

Each person took home _____ 2 _____ lizards.

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 ÷ 9 31

31

NAME _____ SCORE ☐ / 3

Division Practice

Solve each problem. Show your work under each question.

1. Eddie and Toru listened to 72 of their favorite songs. If there were 9 songs on each CD, how many CDs did they listen to?

They listened to _____ 8 _____ CDs.

2. Mr. Luiz printed 35 tests for his students. If there were 7 rows of students, how many tests were passed out to each row?

There were _____ 5 _____ tests passed out to each row.

3. Gary opened a bag of candy containing 81 pieces. He wants to give each of his guests the same number of pieces. If he has 9 guests, how many pieces does each person get?

Each guest gets _____ 9 _____ pieces.

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 ÷ 9 32

32

NAME _____ SCORE ☐ / 3

Division Practice

Solve each problem. Show your work under each question.

1. Last year, Mrs. Ford decided to give chores to each person in the family. Each person got the same number of chores. There are 8 family members. If there were 32 chores, how many did each person get?

Each person got _____ 4 _____ chores.

2. It takes 16 hours to drive to the dunes. Tasha and her brother Kurt will drive the same number of hours. How many hours will each of them drive?

Each of them will drive _____ 8 _____ hours.

3. The Pet Store warehouse received 63 boxes of cat litter. The same number of boxes will be sent to 9 stores. How many boxes will each store get? Write a division equation. Then, solve.

_____ $63 \div x = 9$ _____

Each store will get _____ 7 _____ boxes.

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 ÷ 9 33

33

NAME _____ SCORE ☐ / 3

Division Practice

Solve each problem. Show your work under each question.

1. Lori found 42 shells at the beach. She gave the same number of shells to 7 of her friends. How many shells did she give to each friend?

She gave _____ 6 _____ shells to each friend.

2. The drama club is giving a party in the school lunchroom. The club wants to be seated in groups of 8. If 64 students go to the party, how many groups of students will there be?

The drama club will have _____ 8 _____ groups of students.

3. The Pancake Restaurant served 32 pancakes. If 8 customers ate an equal number of pancakes, how many did each person eat?

Each person ate _____ 4 _____ pancakes.

Spectrum Division Chapter 2
Grade 4 Problem Solving: Division Facts through 81 ÷ 9 34

34

Answer Key

NAME _____ SCORE **35** / 3

Division Practice

Solve each problem. Show your work under each question.

1. In the flower seed package, there are 48 seeds. Alicia has 8 flowerpots. She wants to put an equal number of seeds in each pot. How many seeds should she put in each pot?

She should put 6 seeds in each pot.

2. The local baseball team has a supply of 54 baseballs for 9 home games. How many baseballs are available for each home game?

There are 6 baseballs available for each home game.

3. The class gerbil has just had 16 babies. If there are 8 students who want to take them home, how many babies can each student have?

Each student can have 2 baby gerbils.

Spectrum Division Grade 4 Chapter 2 Problem Solving: Division Facts through 81 ÷ 9 35

35

NAME _____

Check What You Learned

Problem Solving: Division Facts through 81 ÷ 9

Read the problem carefully and solve. Show your work under each question.

The marching bands from four area schools are in a large parade. Each band marches in rows with the same number of students in each row. Leo's school band has 45 members. Tara's school band has 72 members. Mayo's school band has 32 members, and Barbara's school band has 63 members.

1. Mayo's school band marches in 4 rows. How many band members are there in each row?

8 band members

2. Tara's school band marches with 9 band members in each row. How many rows does the band have? Write a division equation. Then, solve.

$72 \div 9 = 8$
8 rows

3. Barbara's band director plans to have 7 rows. How many band members are in each row? What multiplication sentence can be used to check this division?

9 band members
 $7 \times 9 = 63$

4. Leo's school band also marches with 9 band members in each row. How many rows does the band have?

5 rows

Spectrum Division Grade 4 Chapter 2 Problem Solving: Division Facts through 81 ÷ 9 36

36

NAME _____

Mid-Test Chapters 1–2

Divide.

a. $5 \overline{)25}$	b. $4 \overline{)16}$	c. $7 \overline{)21}$	d. $9 \overline{)81}$	e. $6 \overline{)18}$
1. $6 \overline{)34}$	$3 \overline{)27}$	$9 \overline{)72}$	$7 \overline{)49}$	$5 \overline{)15}$
3. $3 \overline{)24}$	$4 \overline{)28}$	$9 \overline{)36}$	$2 \overline{)14}$	$1 \overline{)9}$
4. $3 \overline{)6}$	$8 \overline{)16}$	$7 \overline{)35}$	$5 \overline{)15}$	$3 \overline{)9}$
5. $7 \overline{)42}$	$9 \overline{)45}$	$2 \overline{)12}$	$7 \overline{)63}$	$2 \overline{)6}$
6. $5 \overline{)20}$	$2 \overline{)18}$	$8 \overline{)32}$	$4 \overline{)24}$	$8 \overline{)72}$
7. $1 \overline{)1}$	$8 \overline{)8}$	$6 \overline{)36}$	$5 \overline{)45}$	$2 \overline{)16}$
8. $8 \overline{)48}$	$3 \overline{)15}$	$3 \overline{)21}$	$9 \overline{)54}$	$1 \overline{)5}$
9. $8 \overline{)24}$	$7 \overline{)28}$	$4 \overline{)36}$	$7 \overline{)14}$	$9 \overline{)9}$
10. $5 \overline{)35}$	$6 \overline{)42}$	$5 \overline{)45}$	$1 \overline{)2}$	$9 \overline{)63}$

Spectrum Division Grade 4 Mid-Test Chapters 1–2 37

37

NAME _____

Mid-Test Chapters 1–2

Solve each problem. Show your work under each question.

11. A group of 7 boys cut lawns over the weekend. They made 56 dollars. Each boy will make the same amount. How much money will each boy get?

Each boy will get 8 dollars.

12. Gloria decided to make lemonade for her family. There are 8 people in her family. The pitcher will hold 24 glasses of lemonade. How many glasses can each person have? Write a division equation. Then, solve.

$24 \div 8 = 3$
Each person can have 3 glasses.

13. Susan, Marta, and Aisha have 5 hours to spend at the zoo. There are 40 different animals they want to see. During each hour at the zoo, how many animals should they plan to see?

They should plan to see 8 different animals each hour.

14. Write the rule for this table.

In	Out
48	8
24	4
42	7
18	3

divide by 6

Spectrum Division Grade 4 Chapter 2 Mid-Test Chapters 1–2 38

38

NAME _____

Check What You Know

Dividing through 4 Digits by 1 Digit

Divide.

a. $2 \overline{)42}$	b. $7 \overline{)14}$	c. $7 \overline{)14}$	d. $3 \overline{)63}$	e. $6 \overline{)60}$
1. $5 \overline{)152}$	$3 \overline{)521}$	$8 \overline{)55}$	$7 \overline{)70}$	$4 \overline{)98}$
2. $30 \overline{)2}$	$173 \overline{)2}$	$6 \overline{)7}$	$10 \overline{)2}$	$24 \overline{)2}$
3. $9 \overline{)87}$	$7 \overline{)77}$	$25 \overline{)250}$	$28 \overline{)42}$	$3 \overline{)900}$
4. $3 \overline{)45}$	$5 \overline{)105}$	$1300 \overline{)1300}$	$8 \overline{)78}$	$22 \overline{)22}$
5. $5 \overline{)1905}$	$6 \overline{)121}$	$7 \overline{)62}$	$7 \overline{)22}$	$2 \overline{)90}$

Spectrum Division Grade 4 Chapter 3 Dividing through 4 Digits by 1 Digit 39

39

NAME _____ SCORE **40** / 20

Dividing 2 Digits

Divide.

$8 \overline{)16}$ $16 \div 8 = 2$ $2 \times 8 = 16$ $16 - 16 = 0$

$8 \overline{)33}$ $33 \div 8 = 4$ $4 \times 8 = 32$ $33 - 32 = 1$ 1 is less than 8, so the remainder 1 is recorded like this.

Divide.

a. $5 \overline{)26}$	b. $8 \overline{)24}$	c. $7 \overline{)35}$	d. $9 \overline{)81}$	e. $5 \overline{)25}$
1. $8 \overline{)66}$	$3 \overline{)17}$	$2 \overline{)13}$	$7 \overline{)50}$	$6 \overline{)40}$
2. $3 \overline{)30}$	$5 \overline{)41}$	$3 \overline{)10}$	$8 \overline{)73}$	$7 \overline{)57}$
3. $8 \overline{)20}$	$6 \overline{)37}$	$9 \overline{)55}$	$7 \overline{)29}$	$5 \overline{)47}$

Spectrum Division Grade 4 Chapter 3 Dividing through 4 Digits by 1 Digit 40

40

Answer Key

NAME _____ SCORE ☐ / 20

Dividing 2 Digits

Divide.

a	b	c	d	e
1. $\begin{array}{r} 18 \\ 2 \overline{) 36} \end{array}$	$\begin{array}{r} 15r1 \\ 5 \overline{) 76} \end{array}$	$\begin{array}{r} 11r2 \\ 7 \overline{) 79} \end{array}$	$\begin{array}{r} 24 \\ 4 \overline{) 96} \end{array}$	$\begin{array}{r} 13r2 \\ 7 \overline{) 93} \end{array}$
2. $\begin{array}{r} 17r1 \\ 5 \overline{) 86} \end{array}$	$\begin{array}{r} 32 \\ 3 \overline{) 96} \end{array}$	$\begin{array}{r} 12r3 \\ 8 \overline{) 99} \end{array}$	$\begin{array}{r} 12 \\ 7 \overline{) 84} \end{array}$	$\begin{array}{r} 25 \\ 3 \overline{) 75} \end{array}$
3. $\begin{array}{r} 15r3 \\ 6 \overline{) 93} \end{array}$	$\begin{array}{r} 12 \\ 6 \overline{) 72} \end{array}$	$\begin{array}{r} 11r1 \\ 8 \overline{) 89} \end{array}$	$\begin{array}{r} 12r5 \\ 7 \overline{) 89} \end{array}$	$\begin{array}{r} 11 \\ 9 \overline{) 99} \end{array}$
4. $\begin{array}{r} 22 \\ 4 \overline{) 88} \end{array}$	$\begin{array}{r} 28 \\ 3 \overline{) 84} \end{array}$	$\begin{array}{r} 38r1 \\ 2 \overline{) 77} \end{array}$	$\begin{array}{r} 19r2 \\ 4 \overline{) 78} \end{array}$	$\begin{array}{r} 11r5 \\ 8 \overline{) 93} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 41

41

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $\begin{array}{r} 4r1 \\ 4 \overline{) 17} \end{array}$	$\begin{array}{r} 7r1 \\ 3 \overline{) 22} \end{array}$	$\begin{array}{r} 5r1 \\ 4 \overline{) 21} \end{array}$	$\begin{array}{r} 9r2 \\ 3 \overline{) 29} \end{array}$	$\begin{array}{r} 6r2 \\ 4 \overline{) 26} \end{array}$
2. $\begin{array}{r} 4r2 \\ 8 \overline{) 34} \end{array}$	$\begin{array}{r} 3r3 \\ 8 \overline{) 27} \end{array}$	$\begin{array}{r} 7r2 \\ 4 \overline{) 30} \end{array}$	$\begin{array}{r} 3r2 \\ 7 \overline{) 23} \end{array}$	$\begin{array}{r} 6r2 \\ 5 \overline{) 32} \end{array}$
3. $\begin{array}{r} 8r2 \\ 3 \overline{) 26} \end{array}$	$\begin{array}{r} 7r3 \\ 5 \overline{) 38} \end{array}$	$\begin{array}{r} 6r2 \\ 3 \overline{) 20} \end{array}$	$\begin{array}{r} 9r1 \\ 4 \overline{) 37} \end{array}$	$\begin{array}{r} 4r2 \\ 9 \overline{) 38} \end{array}$
4. $\begin{array}{r} 3r3 \\ 6 \overline{) 21} \end{array}$	$\begin{array}{r} 8r2 \\ 5 \overline{) 42} \end{array}$	$\begin{array}{r} 5r1 \\ 5 \overline{) 26} \end{array}$	$\begin{array}{r} 8r3 \\ 4 \overline{) 35} \end{array}$	$\begin{array}{r} 7r1 \\ 2 \overline{) 15} \end{array}$
5. $\begin{array}{r} 4r1 \\ 7 \overline{) 29} \end{array}$	$\begin{array}{r} 5r3 \\ 9 \overline{) 48} \end{array}$	$\begin{array}{r} 4r2 \\ 5 \overline{) 22} \end{array}$	$\begin{array}{r} 3r1 \\ 9 \overline{) 28} \end{array}$	$\begin{array}{r} 5r4 \\ 6 \overline{) 34} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 42

42

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $\begin{array}{r} 4r2 \\ 7 \overline{) 30} \end{array}$	$\begin{array}{r} 5r3 \\ 8 \overline{) 43} \end{array}$	$\begin{array}{r} 8r3 \\ 9 \overline{) 75} \end{array}$	$\begin{array}{r} 4r2 \\ 6 \overline{) 26} \end{array}$	$\begin{array}{r} 5r2 \\ 5 \overline{) 27} \end{array}$
2. $\begin{array}{r} 3r2 \\ 8 \overline{) 26} \end{array}$	$\begin{array}{r} 8r4 \\ 6 \overline{) 52} \end{array}$	$\begin{array}{r} 4r3 \\ 9 \overline{) 39} \end{array}$	$\begin{array}{r} 8r2 \\ 4 \overline{) 34} \end{array}$	$\begin{array}{r} 5r3 \\ 9 \overline{) 48} \end{array}$
3. $\begin{array}{r} 5r3 \\ 7 \overline{) 38} \end{array}$	$\begin{array}{r} 7r1 \\ 3 \overline{) 22} \end{array}$	$\begin{array}{r} 7r2 \\ 5 \overline{) 37} \end{array}$	$\begin{array}{r} 6r2 \\ 6 \overline{) 38} \end{array}$	$\begin{array}{r} 5r3 \\ 6 \overline{) 33} \end{array}$
4. $\begin{array}{r} 8r2 \\ 3 \overline{) 26} \end{array}$	$\begin{array}{r} 7r2 \\ 8 \overline{) 58} \end{array}$	$\begin{array}{r} 7r2 \\ 7 \overline{) 51} \end{array}$	$\begin{array}{r} 9r3 \\ 9 \overline{) 84} \end{array}$	$\begin{array}{r} 7r2 \\ 4 \overline{) 30} \end{array}$
5. $\begin{array}{r} 5r2 \\ 4 \overline{) 22} \end{array}$	$\begin{array}{r} 7r1 \\ 9 \overline{) 64} \end{array}$	$\begin{array}{r} 7r3 \\ 6 \overline{) 45} \end{array}$	$\begin{array}{r} 8r2 \\ 8 \overline{) 66} \end{array}$	$\begin{array}{r} 9r2 \\ 7 \overline{) 65} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 43

43

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $\begin{array}{r} 9r2 \\ 8 \overline{) 74} \end{array}$	$\begin{array}{r} 6r2 \\ 5 \overline{) 32} \end{array}$	$\begin{array}{r} 8r2 \\ 6 \overline{) 50} \end{array}$	$\begin{array}{r} 6r2 \\ 3 \overline{) 20} \end{array}$	$\begin{array}{r} 5r5 \\ 9 \overline{) 50} \end{array}$
2. $\begin{array}{r} 8r3 \\ 7 \overline{) 59} \end{array}$	$\begin{array}{r} 9r2 \\ 4 \overline{) 38} \end{array}$	$\begin{array}{r} 6r2 \\ 8 \overline{) 50} \end{array}$	$\begin{array}{r} 6r3 \\ 4 \overline{) 27} \end{array}$	$\begin{array}{r} 5r2 \\ 9 \overline{) 47} \end{array}$
3. $\begin{array}{r} 7r5 \\ 8 \overline{) 61} \end{array}$	$\begin{array}{r} 5r5 \\ 7 \overline{) 40} \end{array}$	$\begin{array}{r} 9r3 \\ 6 \overline{) 57} \end{array}$	$\begin{array}{r} 9r1 \\ 9 \overline{) 82} \end{array}$	$\begin{array}{r} 5r1 \\ 2 \overline{) 11} \end{array}$
4. $\begin{array}{r} 6r6 \\ 7 \overline{) 48} \end{array}$	$\begin{array}{r} 8r1 \\ 9 \overline{) 73} \end{array}$	$\begin{array}{r} 9r2 \\ 5 \overline{) 47} \end{array}$	$\begin{array}{r} 7r2 \\ 6 \overline{) 44} \end{array}$	$\begin{array}{r} 9r5 \\ 7 \overline{) 68} \end{array}$
5. $\begin{array}{r} 5r2 \\ 3 \overline{) 17} \end{array}$	$\begin{array}{r} 5r7 \\ 8 \overline{) 47} \end{array}$	$\begin{array}{r} 5r1 \\ 6 \overline{) 31} \end{array}$	$\begin{array}{r} 8r3 \\ 5 \overline{) 43} \end{array}$	$\begin{array}{r} 9r6 \\ 9 \overline{) 87} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 44

44

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $\begin{array}{r} 22r2 \\ 3 \overline{) 68} \end{array}$	$\begin{array}{r} 28r2 \\ 3 \overline{) 86} \end{array}$	$\begin{array}{r} 23r1 \\ 2 \overline{) 47} \end{array}$	$\begin{array}{r} 11r2 \\ 5 \overline{) 57} \end{array}$	$\begin{array}{r} 11r1 \\ 8 \overline{) 89} \end{array}$
2. $\begin{array}{r} 31r2 \\ 3 \overline{) 95} \end{array}$	$\begin{array}{r} 11r2 \\ 7 \overline{) 79} \end{array}$	$\begin{array}{r} 32r1 \\ 2 \overline{) 65} \end{array}$	$\begin{array}{r} 21r3 \\ 4 \overline{) 87} \end{array}$	$\begin{array}{r} 12r1 \\ 3 \overline{) 37} \end{array}$
3. $\begin{array}{r} 11r4 \\ 5 \overline{) 59} \end{array}$	$\begin{array}{r} 43r1 \\ 2 \overline{) 87} \end{array}$	$\begin{array}{r} 11r1 \\ 4 \overline{) 45} \end{array}$	$\begin{array}{r} 21r1 \\ 3 \overline{) 64} \end{array}$	$\begin{array}{r} 41r1 \\ 2 \overline{) 83} \end{array}$
4. $\begin{array}{r} 12r1 \\ 8 \overline{) 97} \end{array}$	$\begin{array}{r} 13r1 \\ 6 \overline{) 79} \end{array}$	$\begin{array}{r} 16r1 \\ 4 \overline{) 65} \end{array}$	$\begin{array}{r} 13r4 \\ 7 \overline{) 95} \end{array}$	$\begin{array}{r} 24r2 \\ 3 \overline{) 74} \end{array}$
5. $\begin{array}{r} 14r2 \\ 5 \overline{) 72} \end{array}$	$\begin{array}{r} 26r1 \\ 2 \overline{) 53} \end{array}$	$\begin{array}{r} 12r2 \\ 7 \overline{) 86} \end{array}$	$\begin{array}{r} 15r2 \\ 3 \overline{) 47} \end{array}$	$\begin{array}{r} 13r3 \\ 6 \overline{) 81} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 45

45

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

a	b	c	d	e
1. $\begin{array}{r} 15r2 \\ 6 \overline{) 92} \end{array}$	$\begin{array}{r} 15r3 \\ 4 \overline{) 63} \end{array}$	$\begin{array}{r} 18r1 \\ 2 \overline{) 37} \end{array}$	$\begin{array}{r} 13r5 \\ 7 \overline{) 96} \end{array}$	$\begin{array}{r} 18r2 \\ 3 \overline{) 56} \end{array}$
2. $\begin{array}{r} 12r3 \\ 5 \overline{) 63} \end{array}$	$\begin{array}{r} 12r3 \\ 8 \overline{) 99} \end{array}$	$\begin{array}{r} 13r3 \\ 4 \overline{) 55} \end{array}$	$\begin{array}{r} 14r1 \\ 6 \overline{) 85} \end{array}$	$\begin{array}{r} 14r4 \\ 5 \overline{) 74} \end{array}$
3. $\begin{array}{r} 37r1 \\ 2 \overline{) 75} \end{array}$	$\begin{array}{r} 23r3 \\ 4 \overline{) 95} \end{array}$	$\begin{array}{r} 11r5 \\ 7 \overline{) 82} \end{array}$	$\begin{array}{r} 28r1 \\ 3 \overline{) 85} \end{array}$	$\begin{array}{r} 11r7 \\ 8 \overline{) 95} \end{array}$
4. $\begin{array}{r} 18r3 \\ 4 \overline{) 75} \end{array}$	$\begin{array}{r} 16r2 \\ 5 \overline{) 82} \end{array}$	$\begin{array}{r} 25r2 \\ 3 \overline{) 77} \end{array}$	$\begin{array}{r} 14r5 \\ 6 \overline{) 89} \end{array}$	$\begin{array}{r} 28r1 \\ 2 \overline{) 57} \end{array}$
5. $\begin{array}{r} 13r2 \\ 7 \overline{) 93} \end{array}$	$\begin{array}{r} 14r4 \\ 5 \overline{) 74} \end{array}$	$\begin{array}{r} 46r1 \\ 2 \overline{) 93} \end{array}$	$\begin{array}{r} 16r3 \\ 4 \overline{) 67} \end{array}$	$\begin{array}{r} 14r1 \\ 3 \overline{) 43} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 46

46

Answer Key

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

	a	b	c	d	e
1.	$\begin{array}{r} 31\cancel{r}1 \\ 2 \overline{) 63} \end{array}$	$\begin{array}{r} 15 \\ 5 \overline{) 75} \end{array}$	$\begin{array}{r} 10\cancel{r}7 \\ 9 \overline{) 97} \end{array}$	$\begin{array}{r} 12\cancel{r}4 \\ 7 \overline{) 88} \end{array}$	$\begin{array}{r} 11\cancel{r}1 \\ 5 \overline{) 56} \end{array}$
2.	$\begin{array}{r} 24 \\ 3 \overline{) 72} \end{array}$	$\begin{array}{r} 12 \\ 8 \overline{) 96} \end{array}$	$\begin{array}{r} 13 \\ 6 \overline{) 78} \end{array}$	$\begin{array}{r} 16\cancel{r}1 \\ 4 \overline{) 65} \end{array}$	$\begin{array}{r} 19\cancel{r}2 \\ 5 \overline{) 97} \end{array}$
3.	$\begin{array}{r} 37\cancel{r}1 \\ 2 \overline{) 75} \end{array}$	$\begin{array}{r} 8\cancel{r}2 \\ 4 \overline{) 34} \end{array}$	$\begin{array}{r} 15\cancel{r}3 \\ 6 \overline{) 93} \end{array}$	$\begin{array}{r} 11\cancel{r}1 \\ 8 \overline{) 89} \end{array}$	$\begin{array}{r} 34\cancel{r}1 \\ 2 \overline{) 69} \end{array}$
4.	$\begin{array}{r} 21\cancel{r}1 \\ 3 \overline{) 64} \end{array}$	$\begin{array}{r} 12\cancel{r}3 \\ 7 \overline{) 87} \end{array}$	$\begin{array}{r} 19 \\ 5 \overline{) 95} \end{array}$	$\begin{array}{r} 11\cancel{r}3 \\ 4 \overline{) 47} \end{array}$	$\begin{array}{r} 19\cancel{r}2 \\ 3 \overline{) 59} \end{array}$
5.	$\begin{array}{r} 14\cancel{r}3 \\ 4 \overline{) 59} \end{array}$	$\begin{array}{r} 11\cancel{r}5 \\ 6 \overline{) 71} \end{array}$	$\begin{array}{r} 24\cancel{r}1 \\ 2 \overline{) 49} \end{array}$	$\begin{array}{r} 14\cancel{r}1 \\ 7 \overline{) 99} \end{array}$	$\begin{array}{r} 12\cancel{r}1 \\ 8 \overline{) 97} \end{array}$

Spectrum Division Grade 4 Chapter 3
Dividing through 4 Digits by 1 Digit 47

47

NAME _____ SCORE ☐ / 15

Dividing 3 Digits

Since $100 \times 8 = 800$ and 800 is greater than 453, there is no hundreds digit.

	a	b	c	d	e
1.	$\begin{array}{r} 90 \\ 8 \overline{) 720} \end{array}$	$\begin{array}{r} 93 \\ 4 \overline{) 372} \end{array}$	$\begin{array}{r} 41\cancel{r}3 \\ 9 \overline{) 372} \end{array}$	$\begin{array}{r} 43\cancel{r}1 \\ 4 \overline{) 173} \end{array}$	$\begin{array}{r} 75 \\ 2 \overline{) 150} \end{array}$
2.	$\begin{array}{r} 92 \\ 6 \overline{) 552} \end{array}$	$\begin{array}{r} 46\cancel{r}1 \\ 3 \overline{) 139} \end{array}$	$\begin{array}{r} 62 \\ 4 \overline{) 248} \end{array}$	$\begin{array}{r} 98\cancel{r}8 \\ 9 \overline{) 890} \end{array}$	$\begin{array}{r} 21 \\ 5 \overline{) 105} \end{array}$
3.	$\begin{array}{r} 86\cancel{r}6 \\ 9 \overline{) 780} \end{array}$	$\begin{array}{r} 45 \\ 5 \overline{) 225} \end{array}$	$\begin{array}{r} 90\cancel{r}3 \\ 9 \overline{) 813} \end{array}$	$\begin{array}{r} 73 \\ 7 \overline{) 511} \end{array}$	$\begin{array}{r} 36\cancel{r}2 \\ 3 \overline{) 110} \end{array}$

Spectrum Division Grade 4 Chapter 3
Dividing through 4 Digits by 1 Digit 48

48

NAME _____ SCORE ☐ / 20

Dividing 3 Digits

Divide.

	a	b	c	d	e
1.	$\begin{array}{r} 109\cancel{r}1 \\ 5 \overline{) 546} \end{array}$	$\begin{array}{r} 190\cancel{r}2 \\ 4 \overline{) 762} \end{array}$	$\begin{array}{r} 157\cancel{r}1 \\ 3 \overline{) 472} \end{array}$	$\begin{array}{r} 114\cancel{r}3 \\ 6 \overline{) 687} \end{array}$	$\begin{array}{r} 124\cancel{r}2 \\ 8 \overline{) 994} \end{array}$
2.	$\begin{array}{r} 311 \\ 3 \overline{) 933} \end{array}$	$\begin{array}{r} 114 \\ 4 \overline{) 456} \end{array}$	$\begin{array}{r} 115\cancel{r}1 \\ 7 \overline{) 806} \end{array}$	$\begin{array}{r} 225\cancel{r}1 \\ 2 \overline{) 451} \end{array}$	$\begin{array}{r} 150 \\ 5 \overline{) 750} \end{array}$
3.	$\begin{array}{r} 104 \\ 9 \overline{) 936} \end{array}$	$\begin{array}{r} 256 \\ 3 \overline{) 768} \end{array}$	$\begin{array}{r} 101\cancel{r}6 \\ 9 \overline{) 915} \end{array}$	$\begin{array}{r} 212 \\ 4 \overline{) 848} \end{array}$	$\begin{array}{r} 127 \\ 6 \overline{) 762} \end{array}$
4.	$\begin{array}{r} 417\cancel{r}1 \\ 2 \overline{) 835} \end{array}$	$\begin{array}{r} 176 \\ 2 \overline{) 352} \end{array}$	$\begin{array}{r} 109\cancel{r}3 \\ 7 \overline{) 766} \end{array}$	$\begin{array}{r} 126\cancel{r}2 \\ 4 \overline{) 506} \end{array}$	$\begin{array}{r} 143\cancel{r}1 \\ 2 \overline{) 287} \end{array}$

Spectrum Division Grade 4 Chapter 3
Dividing through 4 Digits by 1 Digit 49

49

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

	a	b	c	d	e
1.	$\begin{array}{r} 128\cancel{r}5 \\ 6 \overline{) 773} \end{array}$	$\begin{array}{r} 449 \\ 2 \overline{) 898} \end{array}$	$\begin{array}{r} 141\cancel{r}2 \\ 4 \overline{) 566} \end{array}$	$\begin{array}{r} 130\cancel{r}1 \\ 6 \overline{) 781} \end{array}$	$\begin{array}{r} 324 \\ 3 \overline{) 972} \end{array}$
2.	$\begin{array}{r} 158\cancel{r}1 \\ 2 \overline{) 317} \end{array}$	$\begin{array}{r} 183 \\ 4 \overline{) 732} \end{array}$	$\begin{array}{r} 109\cancel{r}8 \\ 9 \overline{) 989} \end{array}$	$\begin{array}{r} 128\cancel{r}1 \\ 7 \overline{) 897} \end{array}$	$\begin{array}{r} 197 \\ 2 \overline{) 394} \end{array}$
3.	$\begin{array}{r} 105\cancel{r}4 \\ 5 \overline{) 529} \end{array}$	$\begin{array}{r} 112\cancel{r}1 \\ 8 \overline{) 897} \end{array}$	$\begin{array}{r} 225\cancel{r}1 \\ 3 \overline{) 676} \end{array}$	$\begin{array}{r} 174 \\ 2 \overline{) 348} \end{array}$	$\begin{array}{r} 155 \\ 6 \overline{) 930} \end{array}$
4.	$\begin{array}{r} 261\cancel{r}1 \\ 3 \overline{) 784} \end{array}$	$\begin{array}{r} 152\cancel{r}3 \\ 5 \overline{) 788} \end{array}$	$\begin{array}{r} 160\cancel{r}1 \\ 3 \overline{) 481} \end{array}$	$\begin{array}{r} 111\cancel{r}3 \\ 5 \overline{) 558} \end{array}$	$\begin{array}{r} 305 \\ 2 \overline{) 610} \end{array}$
5.	$\begin{array}{r} 108 \\ 3 \overline{) 324} \end{array}$	$\begin{array}{r} 190\cancel{r}3 \\ 5 \overline{) 953} \end{array}$	$\begin{array}{r} 144\cancel{r}4 \\ 6 \overline{) 868} \end{array}$	$\begin{array}{r} 325 \\ 3 \overline{) 975} \end{array}$	$\begin{array}{r} 120 \\ 6 \overline{) 720} \end{array}$

Spectrum Division Grade 4 Chapter 3
Dividing through 4 Digits by 1 Digit 50

50

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

	a	b	c	d	e
1.	$\begin{array}{r} 75 \\ 3 \overline{) 225} \end{array}$	$\begin{array}{r} 54 \\ 6 \overline{) 324} \end{array}$	$\begin{array}{r} 32 \\ 9 \overline{) 288} \end{array}$	$\begin{array}{r} 69 \\ 2 \overline{) 138} \end{array}$	$\begin{array}{r} 65 \\ 7 \overline{) 455} \end{array}$
2.	$\begin{array}{r} 54 \\ 4 \overline{) 216} \end{array}$	$\begin{array}{r} 63 \\ 8 \overline{) 504} \end{array}$	$\begin{array}{r} 54 \\ 5 \overline{) 270} \end{array}$	$\begin{array}{r} 57 \\ 3 \overline{) 171} \end{array}$	$\begin{array}{r} 63 \\ 6 \overline{) 378} \end{array}$
3.	$\begin{array}{r} 95 \\ 9 \overline{) 855} \end{array}$	$\begin{array}{r} 97 \\ 2 \overline{) 194} \end{array}$	$\begin{array}{r} 55 \\ 7 \overline{) 385} \end{array}$	$\begin{array}{r} 76 \\ 4 \overline{) 304} \end{array}$	$\begin{array}{r} 87 \\ 5 \overline{) 435} \end{array}$
4.	$\begin{array}{r} 67 \\ 3 \overline{) 201} \end{array}$	$\begin{array}{r} 58 \\ 6 \overline{) 348} \end{array}$	$\begin{array}{r} 93 \\ 8 \overline{) 744} \end{array}$	$\begin{array}{r} 77 \\ 2 \overline{) 154} \end{array}$	$\begin{array}{r} 34 \\ 9 \overline{) 306} \end{array}$
5.	$\begin{array}{r} 56 \\ 4 \overline{) 224} \end{array}$	$\begin{array}{r} 92 \\ 7 \overline{) 644} \end{array}$	$\begin{array}{r} 95 \\ 5 \overline{) 475} \end{array}$	$\begin{array}{r} 94 \\ 3 \overline{) 282} \end{array}$	$\begin{array}{r} 98 \\ 6 \overline{) 588} \end{array}$

Spectrum Division Grade 4 Chapter 3
Dividing through 4 Digits by 1 Digit 51

51

NAME _____ SCORE ☐ / 25

Division Practice

Divide.

	a	b	c	d	e
1.	$\begin{array}{r} 77\cancel{r}1 \\ 2 \overline{) 155} \end{array}$	$\begin{array}{r} 89\cancel{r}2 \\ 4 \overline{) 358} \end{array}$	$\begin{array}{r} 45\cancel{r}3 \\ 6 \overline{) 273} \end{array}$	$\begin{array}{r} 53\cancel{r}4 \\ 8 \overline{) 428} \end{array}$	$\begin{array}{r} 44\cancel{r}3 \\ 9 \overline{) 399} \end{array}$
2.	$\begin{array}{r} 98\cancel{r}2 \\ 3 \overline{) 296} \end{array}$	$\begin{array}{r} 58\cancel{r}1 \\ 5 \overline{) 291} \end{array}$	$\begin{array}{r} 78\cancel{r}3 \\ 7 \overline{) 549} \end{array}$	$\begin{array}{r} 86\cancel{r}1 \\ 2 \overline{) 173} \end{array}$	$\begin{array}{r} 87\cancel{r}4 \\ 5 \overline{) 439} \end{array}$
3.	$\begin{array}{r} 84\cancel{r}2 \\ 9 \overline{) 758} \end{array}$	$\begin{array}{r} 65\cancel{r}2 \\ 6 \overline{) 392} \end{array}$	$\begin{array}{r} 39\cancel{r}6 \\ 7 \overline{) 279} \end{array}$	$\begin{array}{r} 69\cancel{r}2 \\ 3 \overline{) 209} \end{array}$	$\begin{array}{r} 57\cancel{r}3 \\ 4 \overline{) 231} \end{array}$
4.	$\begin{array}{r} 87\cancel{r}3 \\ 8 \overline{) 699} \end{array}$	$\begin{array}{r} 59\cancel{r}1 \\ 2 \overline{) 119} \end{array}$	$\begin{array}{r} 84\cancel{r}3 \\ 6 \overline{) 507} \end{array}$	$\begin{array}{r} 39\cancel{r}2 \\ 5 \overline{) 197} \end{array}$	$\begin{array}{r} 54\cancel{r}3 \\ 9 \overline{) 489} \end{array}$
5.	$\begin{array}{r} 57\cancel{r}2 \\ 3 \overline{) 173} \end{array}$	$\begin{array}{r} 58\cancel{r}2 \\ 7 \overline{) 408} \end{array}$	$\begin{array}{r} 39\cancel{r}3 \\ 6 \overline{) 237} \end{array}$	$\begin{array}{r} 67\cancel{r}3 \\ 5 \overline{) 338} \end{array}$	$\begin{array}{r} 78\cancel{r}2 \\ 4 \overline{) 314} \end{array}$

Spectrum Division Grade 4 Chapter 3
Dividing through 4 Digits by 1 Digit 52

52

535455565758

Answer Key

NAME _____ SCORE ☐ / 20

Division Practice

Divide.

	a	b	c	d
1.	$\begin{array}{r} 1743 \\ 2 \overline{) 3486} \end{array}$	$\begin{array}{r} 2143 \\ 4 \overline{) 8572} \end{array}$	$\begin{array}{r} 627r2 \\ 6 \overline{) 3764} \end{array}$	$\begin{array}{r} 1065r3 \\ 5 \overline{) 5328} \end{array}$
2.	$\begin{array}{r} 958 \\ 3 \overline{) 2874} \end{array}$	$\begin{array}{r} 4248r1 \\ 2 \overline{) 8497} \end{array}$	$\begin{array}{r} 1228r2 \\ 7 \overline{) 8598} \end{array}$	$\begin{array}{r} 4020 \\ 2 \overline{) 8040} \end{array}$
3.	$\begin{array}{r} 747 \\ 4 \overline{) 2988} \end{array}$	$\begin{array}{r} 1358r1 \\ 6 \overline{) 8149} \end{array}$	$\begin{array}{r} 714r3 \\ 7 \overline{) 5001} \end{array}$	$\begin{array}{r} 2079r1 \\ 3 \overline{) 6238} \end{array}$
4.	$\begin{array}{r} 1476r4 \\ 5 \overline{) 7384} \end{array}$	$\begin{array}{r} 547 \\ 8 \overline{) 4376} \end{array}$	$\begin{array}{r} 2405r1 \\ 2 \overline{) 4811} \end{array}$	$\begin{array}{r} 395r3 \\ 4 \overline{) 1583} \end{array}$
5.	$\begin{array}{r} 1231r5 \\ 6 \overline{) 7391} \end{array}$	$\begin{array}{r} 2314r1 \\ 3 \overline{) 6943} \end{array}$	$\begin{array}{r} 685 \\ 7 \overline{) 4795} \end{array}$	$\begin{array}{r} 1047r2 \\ 5 \overline{) 5237} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 59

59

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Division Practice

Divide.

	a	b	c	d
1.	$\begin{array}{r} 402 \\ 8 \overline{) 3216} \end{array}$	$\begin{array}{r} 318 \\ 4 \overline{) 1272} \end{array}$	$\begin{array}{r} 214r4 \\ 7 \overline{) 1502} \end{array}$	$\begin{array}{r} 98r2 \\ 3 \overline{) 296} \end{array}$
2.	$\begin{array}{r} 801r5 \\ 6 \overline{) 4811} \end{array}$	$\begin{array}{r} 87r5 \\ 9 \overline{) 788} \end{array}$	$\begin{array}{r} 110r4 \\ 5 \overline{) 554} \end{array}$	$\begin{array}{r} 142r7 \\ 8 \overline{) 1143} \end{array}$
3.	$\begin{array}{r} 90r2 \\ 4 \overline{) 362} \end{array}$	$\begin{array}{r} 517r2 \\ 3 \overline{) 1553} \end{array}$	$\begin{array}{r} 925r4 \\ 6 \overline{) 5554} \end{array}$	$\begin{array}{r} 69r4 \\ 7 \overline{) 487} \end{array}$
4.	$\begin{array}{r} 847 \\ 2 \overline{) 694} \end{array}$	$\begin{array}{r} 387r2 \\ 4 \overline{) 1550} \end{array}$	$\begin{array}{r} 795 \\ 9 \overline{) 7153} \end{array}$	$\begin{array}{r} 418r3 \\ 5 \overline{) 2093} \end{array}$
5.	$\begin{array}{r} 682r4 \\ 7 \overline{) 4778} \end{array}$	$\begin{array}{r} 105r1 \\ 3 \overline{) 316} \end{array}$	$\begin{array}{r} 80r3 \\ 6 \overline{) 483} \end{array}$	$\begin{array}{r} 128r3 \\ 4 \overline{) 515} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 60

60

NAME _____ SCORE ☐ / 20

Division Practice

Divide.

	a	b	c	d
1.	$\begin{array}{r} 402r3 \\ 5 \overline{) 2013} \end{array}$	$\begin{array}{r} 235r6 \\ 8 \overline{) 1886} \end{array}$	$\begin{array}{r} 287r8 \\ 9 \overline{) 2591} \end{array}$	$\begin{array}{r} 475r5 \\ 7 \overline{) 3330} \end{array}$
2.	$\begin{array}{r} 109r1 \\ 2 \overline{) 219} \end{array}$	$\begin{array}{r} 210r2 \\ 3 \overline{) 632} \end{array}$	$\begin{array}{r} 367 \\ 5 \overline{) 1835} \end{array}$	$\begin{array}{r} 70r7 \\ 8 \overline{) 567} \end{array}$
3.	$\begin{array}{r} 1025 \\ 6 \overline{) 6150} \end{array}$	$\begin{array}{r} 319r2 \\ 4 \overline{) 1278} \end{array}$	$\begin{array}{r} 850 \\ 5 \overline{) 4250} \end{array}$	$\begin{array}{r} 409r1 \\ 2 \overline{) 819} \end{array}$
4.	$\begin{array}{r} 124r7 \\ 9 \overline{) 1123} \end{array}$	$\begin{array}{r} 324r5 \\ 7 \overline{) 2273} \end{array}$	$\begin{array}{r} 140r6 \\ 8 \overline{) 1126} \end{array}$	$\begin{array}{r} 2897r2 \\ 3 \overline{) 8693} \end{array}$
5.	$\begin{array}{r} 521r2 \\ 4 \overline{) 2086} \end{array}$	$\begin{array}{r} 410r4 \\ 6 \overline{) 2464} \end{array}$	$\begin{array}{r} 120r8 \\ 9 \overline{) 108} \end{array}$	$\begin{array}{r} 1149r6 \\ 8 \overline{) 1198} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 61

61

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Division and Place Value

Use patterns of place value to help determine the divisor.

If, $8 \div \underline{2} = 4$

Then, using place value, you can find the divisor in greater numbers.

$80 \div \underline{2} = 40$	\longrightarrow	$80 \div 2 = 40$
$800 \div \underline{2} = 400$	\longrightarrow	$800 \div 2 = 400$
$8000 \div \underline{2} = 4000$	\longrightarrow	$8000 \div 2 = 4000$

Fill in the missing numbers.

	a	b
1.	$7 \div \underline{7} = 1$ $70 \div \underline{7} = 10$ $700 \div \underline{7} = 100$ $7000 \div \underline{7} = 1000$	$6 \div \underline{3} = 2$ $60 \div \underline{3} = 20$ $600 \div \underline{3} = 200$ $6000 \div \underline{3} = 2000$
2.	$12 \div \underline{4} = 3$ $120 \div \underline{4} = 30$ $1200 \div \underline{4} = 300$ $12000 \div \underline{4} = 3000$	$10 \div \underline{5} = 2$ $100 \div \underline{5} = 20$ $1000 \div \underline{5} = 200$ $10000 \div \underline{5} = 2000$
3.	$9 \div \underline{3} = 3$ $90 \div \underline{3} = 30$ $900 \div \underline{3} = 300$ $9000 \div \underline{3} = 3000$	$5 \div \underline{5} = 1$ $50 \div \underline{5} = 10$ $500 \div \underline{5} = 100$ $5000 \div \underline{5} = 1000$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 62

62

NAME _____ SCORE ☐ / 20

Division and Place Value

Divide.

	a	b	c	d
1.	$\begin{array}{r} 100 \\ 3 \overline{) 300} \end{array}$	$\begin{array}{r} 3000 \\ 2 \overline{) 6000} \end{array}$	$\begin{array}{r} 10 \\ 2 \overline{) 20} \end{array}$	$\begin{array}{r} 200 \\ 4 \overline{) 800} \end{array}$
2.	$\begin{array}{r} 40 \\ 10 \overline{) 400} \end{array}$	$\begin{array}{r} 30 \\ 300 \overline{) 9000} \end{array}$	$\begin{array}{r} 30 \\ 40 \overline{) 1200} \end{array}$	$\begin{array}{r} 10 \\ 10 \overline{) 100} \end{array}$
3.	$\begin{array}{r} 20 \\ 7 \overline{) 140} \end{array}$	$\begin{array}{r} 40 \\ 2 \overline{) 80} \end{array}$	$\begin{array}{r} 2 \\ 700 \overline{) 1400} \end{array}$	$\begin{array}{r} 3 \\ 40 \overline{) 120} \end{array}$
4.	$\begin{array}{r} 300 \\ 3 \overline{) 900} \end{array}$	$\begin{array}{r} 3 \\ 600 \overline{) 1800} \end{array}$	$\begin{array}{r} 5 \\ 2000 \overline{) 10000} \end{array}$	$\begin{array}{r} 20 \\ 30 \overline{) 600} \end{array}$
5.	$\begin{array}{r} 200 \\ 8 \overline{) 600} \end{array}$	$\begin{array}{r} 7 \\ 20 \overline{) 140} \end{array}$	$\begin{array}{r} 2 \\ 90 \overline{) 180} \end{array}$	$\begin{array}{r} 3 \\ 30 \overline{) 90} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 63

63

NAME _____ SCORE ☐ / 20

Division Practice

Divide.

	a	b	c	d
1.	$\begin{array}{r} 15 \\ 3 \overline{) 45} \end{array}$	$\begin{array}{r} 8 \\ 9 \overline{) 72} \end{array}$	$\begin{array}{r} 16r2 \\ 2 \overline{) 34} \end{array}$	$\begin{array}{r} 18r4 \\ 4 \overline{) 76} \end{array}$
2.	$\begin{array}{r} 82r1 \\ 6 \overline{) 493} \end{array}$	$\begin{array}{r} 291 \\ 3 \overline{) 873} \end{array}$	$\begin{array}{r} 125 \\ 7 \overline{) 875} \end{array}$	$\begin{array}{r} 197r2 \\ 5 \overline{) 987} \end{array}$
3.	$\begin{array}{r} 371r1 \\ 7 \overline{) 2598} \end{array}$	$\begin{array}{r} 2641 \\ 2 \overline{) 5282} \end{array}$	$\begin{array}{r} 938r3 \\ 6 \overline{) 5631} \end{array}$	$\begin{array}{r} 2409r1 \\ 4 \overline{) 9637} \end{array}$
4.	$\begin{array}{r} 1638r4 \\ 6 \overline{) 9832} \end{array}$	$\begin{array}{r} 625 \\ 8 \overline{) 5000} \end{array}$	$\begin{array}{r} 1400r4 \\ 5 \overline{) 7004} \end{array}$	$\begin{array}{r} 730r1 \\ 7 \overline{) 5111} \end{array}$
5.	$\begin{array}{r} 17 \\ 5 \overline{) 85} \end{array}$	$\begin{array}{r} 100 \\ 8 \overline{) 800} \end{array}$	$\begin{array}{r} 503 \\ 5 \overline{) 2515} \end{array}$	$\begin{array}{r} 1230 \\ 8 \overline{) 9840} \end{array}$

Spectrum Division Chapter 3
Grade 4 Dividing through 4 Digits by 1 Digit 64

64

Answer Key

NAME _____ SCORE ☐ / 16

Estimating Quotients

Think of what you can round the dividend (24) to so that it is easy to mentally divide by the divisor (7). The quotient is 3.

$$\begin{array}{r} 7 \overline{) 24} \\ 7 \overline{) 21} \\ \underline{-3} \\ 0 \end{array}$$

quotient $\rightarrow 3$

Think of what you can round the dividend (378) to so that it is easy to mentally divide by the divisor (5).

$$\begin{array}{r} 5 \overline{) 378} \\ 5 \overline{) 35} \\ \underline{-30} \\ 28 \\ \underline{-25} \\ 3 \end{array}$$

Divide.

a	b	c	d
1. $3 \overline{) 16}$	$7 \overline{) 36}$	$3 \overline{) 25}$	$4 \overline{) 21}$
2. $4 \overline{) 27}$	$6 \overline{) 217}$	$8 \overline{) 481}$	$7 \overline{) 764}$
3. $9 \overline{) 362}$	$2 \overline{) 563}$	$4 \overline{) 1378}$	$3 \overline{) 1400}$
4. $8 \overline{) 2448}$	$5 \overline{) 9216}$	$9 \overline{) 3502}$	$5 \overline{) 7358}$

Spectrum Division Grade 4 Chapter 3
Dividing through 4 Digits by 1 Digit 65

65

NAME _____

Check What You Learned

Dividing through 4 Digits by 1 Digit

Divide.

a	b	c	d	e
1. $2 \overline{) 32}$	$3 \overline{) 9000}$	$3 \overline{) 49}$	$8 \overline{) 97}$	$2 \overline{) 178}$
2. $4 \overline{) 6121}$	$6 \overline{) 798}$	$5 \overline{) 557}$	$6 \overline{) 636}$	$8 \overline{) 889}$
3. $2 \overline{) 96}$	$3 \overline{) 87}$	$8 \overline{) 1600}$	$3 \overline{) 42}$	$7 \overline{) 31}$
4. $8 \overline{) 75}$	$2 \overline{) 19}$	$8 \overline{) 43}$	$9 \overline{) 89}$	$3 \overline{) 60}$
5. $3 \overline{) 603}$	$5 \overline{) 100}$	$6 \overline{) 762}$	$7 \overline{) 37}$	$2 \overline{) 48}$

Spectrum Division Grade 4 Chapter 3
Dividing through 4 Digits by 1 Digit 66

66

NAME _____

Check What You Know

Problem Solving: Dividing through 4 Digits by 1 Digit

Read the problem carefully and solve. Show your work under each question.

A bookstore needs to pack books in boxes to ship. Each box can only hold one type of book. Each type of book must be divided evenly between the boxes. There are 167 nonfiction books and 89 mystery books. There are 35 picture books and 108 fiction books.

- If the mystery books are packed in 6 boxes, how many mystery books will be in each box? How many mystery books will be left over?
14 mystery books
5 books left over
- If 8 picture books can fit into each box, how many boxes can they fill? How many total boxes will the store need to ship all of the picture books? Explain your answer.
4 full boxes
5 total number of boxes needed
The bookstore will need 1 extra box to ship the remaining 3 books.
- The bookstore plans to use 7 boxes to ship the nonfiction books. How many nonfiction books will fit in each box? How many will be left over?
23 nonfiction books
6 books left over
- The store only has 3 boxes left to ship all the fiction books. Will all the fiction books fit or will there be some left over? Explain your answer.
Yes, all boxes will fit. There will be 36 books in each box with no boxes left over.

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 67

67

NAME _____ SCORE ☐ / 5

Dividing 2 Digits

Read the problem carefully and solve. Show your work under each question.

Two different soccer teams need to carpool to the next game. There are 16 players on Molly's team. Each car on Molly's team can hold 5 players. There are 18 players on Lion's team. Each car on Lion's team can hold 4 players. Lion's team has 4 cars.

Helpful Hint
If a number does not divide into another number evenly, there will be a **remainder** (r).

$$\begin{array}{r} 3 \text{ r } 1 \\ 7 \overline{) 22} \\ \underline{-21} \\ 1 \end{array}$$

- How many cars can Molly's team fill? How many players will be left over?
3 full cars
1 player left
- How many cars will Molly's team need to take all the players to the game? Explain your answer.
4 cars
Her team will need 1 extra car to bring the remaining player.
- Does Lion's team have enough cars to take all their players to the game? If not, how many players still need a ride?
No, her team does not have enough cars. Two players will still need a ride.

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 68

68

NAME _____ SCORE ☐ / 4

Dividing 3 Digits

Read the problem carefully and solve. Show your work under each question.

Natalia and Manuel have a large stamp collection. They organize their stamps into one album. They put the same number of each type of stamp on a page. Natalia and Manuel have 274 animal stamps, 108 sports stamps, 148 flower stamps, and 324 stamps of famous people and events.

Helpful Hint
Remember to write the first digit of the quotient in the correct spot.

$$\begin{array}{r} 62 \\ 7 \overline{) 434} \end{array}$$

Since $100 \times 7 = 700$ and 700 is greater than 437, there is no hundreds digit in the quotient.

- Natalia wants to use 8 pages of the album for the animal stamps. How many animal stamps will be on each page? How many animal stamps will be left over?
34 stamps on a page
2 stamps left over
- Manuel decides to use 4 pages of the album for sports stamps. How many sports stamps will be on each page? How many sports stamps will be left over?
27 stamps on a page
0 stamps left over

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 69

69

NAME _____ SCORE ☐ / 3

Dividing 4 Digits

Read the problem carefully and solve. Show your work under each question.

Middle City Hardware is having a big sale. The staff workers are putting tools and other items in groups for the sale.

- Josie's boss gives her 3,258 bolts. Her boss says to put the bolts in bags of 9 bolts each. How many full bags of bolts will she have?
362 bags
- Chad has 1,137 screwdrivers. Chad puts them in sets of 4. How many screwdrivers will be left over when he is finished?
1 left over
- Special sale items are worth \$7,527 in all. The sale will last for 3 days. How much money will the store make per day if the sales are equal each day?
\$2509

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 70

70

Answer Key

NAME _____ SCORE ☐ / 3

Division and Place Value

Solve each problem. Show your work under each question.

- The cross-country team runs 70 miles a week. If they stop for a break every 7 miles, how many breaks do they take each week?

They take 10 breaks each week.

- The pool's lap lane is 800 feet long. If a swimmer splits this length into 4 equal sections, how many feet will each section be?

Each section will be 200 feet.

- The garden show is moving into a bigger area. The new area has 1,200 square feet of space for displays. There are 300 different displays, and each display will need the same amount of space. How many square feet does each display get?

Each display gets 4 square feet of space.

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 71

71

NAME _____ SCORE ☐ / 4

Division Practice

Solve each problem. Show your work under each question.

- A boys' club picked up litter in the park. They collected 913 bags of litter. If each boy collected about the same amount, about how many bags did the 7 boys collect? How many extra bags were collected?

Each boy picked up about 130 bags.

There were 3 extra bags collected.

- The school supply store received a shipment of 730 pens. If the pens are packed in 5 boxes, how many pens are in each box?

There are 146 pens in each box.

- Taylor needs 612 more dollars to buy a plane ticket to visit his cousin in Australia. If he saves 9 dollars a day, how soon can he go to Australia?

He will have the rest of the money in 68 days.

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 72

72

NAME _____ SCORE ☐ / 4

Division Practice

Solve each problem. Show your work under each question.

- The school office received 22 computers. If there are 9 classrooms receiving the computers, how many computers will go to each classroom? How many computers will be left?

Each classroom will receive 2 computers.

There will be 4 extra computers.

- There are 60 summer jobs for lifeguards at the city pools. There will be 3 lifeguards at each city pool. How many city pools are there?

There are 20 city pools.

- At the Hot Dog Shack, customers bought 27 hot dogs on Saturday. There were only 9 customers. How many hot dogs did each customer buy?

Each customer bought 3 hot dogs.

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 73

73

NAME _____ SCORE ☐ / 4

Division Practice

Solve each problem. Show your work under each question.

- The school spirit club baked cakes for a charity event. There were 75 different types of cakes. Each baker baked the same number of cakes. If there were 5 bakers, how many cakes did each baker make?

Each baker made 15 cakes.

- The Fish Shop is open 72 hours a week. The shop is open 6 days a week and the same number of hours each day. How many hours each day is the shop open?

The shop is open 12 hours a day.

- The glee club needs to sell 382 tickets to win a trip. If there are 8 members who want to go on the trip, how many tickets does each member need to sell? How many extra tickets will be left?

Each member needs to sell 47 tickets.

There will be 6 extra tickets.

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 74

74

NAME _____ SCORE ☐ / 3

Estimating Quotients

Read the problem carefully and solve. Show your work under each question.

The Quick Haul Trucking Company makes local deliveries. The shipping manager divides all of the boxes into various shipments. Sometimes, the manager makes estimates for the shipments.

Helpful Hint

To estimate a quotient, round the dividend into a number that is easily divided by the divisor.

To estimate the quotient of 45 divided by 7, first round 45 into 42. Then, a good estimate of the quotient is 6.

- Quick Haul delivers 133 boxes to 3 stores. Each store gets about the same number of boxes. Estimate the number of boxes going to each store.

About 44 boxes

- Quick Haul trucks can carry 9 boxes of one size. There is a shipment of 83 boxes to deliver. Estimate the number of truckloads for the shipment.

About 9 truckloads

- Quick Haul delivers 103 lamps to 7 stores. If each store gets about the same number of lamps, about how many lamps will each store get?

About 15 lamps

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 75

75

NAME _____

Check What You Learned

Problem Solving: Dividing through 4 Digits by 1 Digit

Read the problem carefully and solve. Show your work under each question.

Kenesha, Shawna, and Jake have postcard collections. They each plan to put their postcards into scrapbooks to organize them. Kenesha has 144 postcards, Shawna has 59 postcards, and Jake has 98 postcards.

- Shawna only wants to use 9 pages of her scrapbook. How many postcards should she put on each page? How many will be left over?

6 postcards

5 postcards left over

- Jake can fit 4 postcards on each page of his scrapbook. How many pages can he fill with his postcards? If he wants to put all of his postcards in the scrapbook, how many total pages will he need to use?

24 full pages

25 total pages needed

- Kenesha plans to put 8 postcards on each page of her scrapbook. How many pages can she fill? How many postcards will be left over?

18 pages

0 postcards left over

- Kenesha and Shawna decide to combine their postcard collections to make a collage. Each girl will get half of the total number of postcards. How many postcards will each girl get to use in the collage? How many will be left over?

101 postcards

1 postcard(s) left over

Spectrum Division Grade 4 Chapter 4
Problem Solving: Dividing through 4 Digits by 1 Digit 76

76

Answer Key

Final Test Chapters 1–4

NAME _____

Divide.

a	b	c	d	e
1. $9 \overline{)81}$	$8 \overline{)56}$	$6 \overline{)48}$	$20 \overline{)160}$	$6 \overline{)42}$
2. $3 \overline{)24}$	$7 \overline{)35}$	$4 \overline{)28}$	$9 \overline{)54}$	$8 \overline{)72}$
3. $110 \overline{)3330}$	$321 \overline{)2642}$	$103 \overline{)7721}$	$1621 \overline{)416484}$	$108 \overline{)81864}$
4. $90r4 \overline{)8724}$	$91r2 \overline{)7639}$	$200 \overline{)511000}$	$41r1 \overline{)67247}$	$438 \overline{)21876}$
5. $939r7 \overline{)8458}$	$115r2 \overline{)7807}$	$114 \overline{)6784}$	$316r1 \overline{)37949}$	$678r1 \overline{)472713}$
6. $100r8 \overline{)9108}$	$255 \overline{)21510}$	$162 \overline{)47648}$	$986 \overline{)87888}$	$300 \overline{)611800}$

Spectrum Division Grade 4 Final Test Chapters 1–4 77

77

Final Test Chapters 1–4

NAME _____

Divide.

a	b	c	d	e
7. $9 \overline{)81}$	$8 \overline{)56}$	$6 \overline{)48}$	$20 \overline{)160}$	$6 \overline{)42}$
8. $3 \overline{)24}$	$7 \overline{)35}$	$4 \overline{)28}$	$9 \overline{)54}$	$8 \overline{)72}$
9. $110 \overline{)3330}$	$321 \overline{)2642}$	$103 \overline{)7721}$	$1621 \overline{)416484}$	$108 \overline{)81864}$
10. $90r4 \overline{)8724}$	$91r2 \overline{)7639}$	$200 \overline{)511000}$	$41r1 \overline{)67247}$	$438 \overline{)21876}$

Fill in the missing numbers.

a	b
11. $9 \div \underline{9} = 1$	$4 \div \underline{2} = 2$
$90 \div \underline{9} = 10$	$40 \div \underline{2} = 20$
$900 \div \underline{9} = 100$	$400 \div \underline{2} = 200$
$9000 \div \underline{9} = 1000$	$4000 \div \underline{2} = 2000$
12. $16 \div \underline{4} = 4$	$15 \div \underline{3} = 5$
$160 \div \underline{4} = 40$	$1500 \div \underline{3} = 500$
$1600 \div \underline{4} = 400$	$15000 \div \underline{3} = 5000$
$16000 \div \underline{4} = 4000$	$150000 \div \underline{3} = 50000$

Spectrum Division Grade 4 Final Test Chapters 1–4 78

78

Final Test Chapters 1–4

NAME _____

Divide.

a	b	c	d	e
13. $10r7 \overline{)878}$	$10r3 \overline{)553}$	$210r2 \overline{)4842}$	$60r6 \overline{)7426}$	$30r2 \overline{)3192}$
14. $80r4 \overline{)6484}$	$104r7 \overline{)8839}$	$307r1 \overline{)2615}$	$10r8 \overline{)9198}$	$90r3 \overline{)6543}$
15. $10r3 \overline{)773}$	$120r3 \overline{)47483}$	$90r2 \overline{)37272}$	$103r2 \overline{)5517}$	$90r4 \overline{)7634}$
16. $407r1 \overline{)21815}$	$60r4 \overline{)67364}$	$80r3 \overline{)47323}$	$90r6 \overline{)87726}$	$210r1 \overline{)3631}$

Find the rule and complete each table.

a		b		c	
In	Out	In	Out	In	Out
32	8	35	7	56	7
28	7	45	9	16	2
8	2	10	2	40	5
36	9	30	6	64	8
40	10	5	1	72	9

divide by 4 divide by 5 divide by 8

Spectrum Division Grade 4 Final Test Chapters 1–4 79

79

Final Test Chapters 1–4

NAME _____

Solve each problem. Show your work under each question.

18. A restaurant has 245 seats with 5 seats at each table. How many tables does the restaurant have?

The restaurant has 49 tables.

19. Homer buys 3 newspapers every week. If Homer has 627 newspapers, how many weeks has he been buying them?

He has been buying newspapers for 209 weeks.

20. A group of 30 children started a lawn mowing company at the beginning of the summer. At the end of the summer, the company had mowed 600 lawns. How many lawns did each child mow if each mowed an equal number?

Each child mowed 20 lawns.

21. The Wilkinson family drove 1,374 miles in 9 days. How many miles did the Wilkinsons drive each day if they drove the same amount? How many more miles did they drive on the last day?

The Wilkinson family drove 152 miles each day.
They drove 6 extra miles on the last day.

Spectrum Division Grade 4 Final Test Chapters 1–4 80

80

Final Test Chapters 1–4

NAME _____

Solve each problem. Show your work under each question.

22. Ms. Garrett had 40 guests at her birthday party. She cut her cake into 88 slices. Each guest ate 2 pieces of cake. How many slices were left?

There were 8 slices left.

23. Lucy babysits for 2 families. She works the same number of hours each month for each family. If she worked 76 hours last month, how many hours did she work for each family?

She worked 38 hours for each family.

24. Tom and Jose enjoy playing video games. Together, they play 10 hours a week. If they play 5 days a week for the same number of hours each day, how many hours do they both play together?

They play together 2 hours a day.

25. At the basketball tournament, 28 people signed up to play. If there were 4 teams, how many players were on a team? Write a division equation. Then, solve.

$28 \div x = 4$

There were 7 players on each team.

Spectrum Division Grade 4 Final Test Chapters 1–4 81

81

Final Test Chapters 1–4

NAME _____

Solve each problem. Show your work under each question.

26. Howard Jackson scored 158 points this season playing basketball. He played in 7 games and scored about the same number of points in each game. About how many points did he score in each game?

He scored about 22 points in each game.

27. Miss Gomez drove 256 miles in 4 hours. She drove the same number of miles each hour. How many miles did she drive in 1 hour?

She drove 64 miles in 1 hour.

28. In the past 6 weeks, Jackson worked on 738 computers. Each week, he worked on the same number of computers. How many computers did he work on every week?

He worked on 123 computers every week.

29. At baseball practice, 1,325 pitches were thrown to the players. If 5 players got the same number of pitches, how many pitches did each player get?

Each player got 265 pitches.

Spectrum Division Grade 4 Final Test Chapters 1–4 82

82

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