SPECTRUM[®] DIVISION



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





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

Domair	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. I	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 ÷ 9

Divide.

a

b

C

d

e



Dividing through 45 ÷ 5

 $\frac{9}{45} \leftarrow \text{quotient}$ 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.

quotient

√ (divisors) 5 6 3 4 0 0 0 0 0 0 0 0 1 3 5 (quotients) 3 15 18 21 24 27 12 4 0 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 5 10 15 20 5 25 30 35 40 45 12 18 24 30 36 42 48 54

14 21 28

35 42 49 56 63

5-column

9 0 8 16 24 32 40 48 56 64 72

7

0

Divide.

a b c d e

1. 5)35 4)16 4)36 3)18 5)25

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

3. 5)45 3)15 5)30 4)32 2)8

Complete the following.

a b



Dividing through 45 ÷ 5

Divide.

a

b

C

d

e

3)2I

2)10

2)16

2)12

9)45

2. 5)35

2)18

5)40

5)30

4)24

3. 3)24

4)20

3)9

4)12

2)14

4. 4)4

5)15

5)10

4)0

3)6

Complete the following.

a

b

C

5.

 $\frac{4}{24}$ so 6)24

3 ×8

<u>×8</u> 24 so 8)24 5 < 6

30 so 6)30



Dividing through 63 ÷ 7

 $\frac{9}{4} \leftarrow \text{quotient}$ 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.

quotient

7	7-column ———									
х	0	I	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	I	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

Divide.

a

b

C

d

е

Complete the following.

a

b

C

$$\frac{5}{45}$$
 so $9)45$

$$\frac{8}{\cancel{5}6} \times \cancel{7}$$
5 6 so 7) 5 6



Dividing through $63 \div 7$

Divide.

a

C

e

Complete the following.

b

C

5. 6
$$\times 9$$
 5.4 50.9 5.4

$$\begin{array}{c} 7 \\ \times 4 \\ \hline 28 \text{ so } 4)28 \end{array}$$

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



Dividing through 81 ÷ 9

9 ← quotient → 9)8 1 ← 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.

quotient

9-column

х	0	ı	2	3	4	5	6	7	8	9
0	0	0	0	0	0	0	0	0	0	0
1	0	ı	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

Divide.

b

8)40 9)72 8)24 6)48 7)28

6)18 3)21 7)49 9)54 9)81 2.

5)35 7)56 9)18 7)42 9)36 3.

Complete the following.

b



Dividing through 81 ÷ 9

Divide.

a

b

C

(

e

Complete the following.

a

b

C

5. 9
$$\times \frac{4}{36}$$
 50 $\frac{4}{36}$

$$\begin{array}{c} 7 \\ \times 9 \\ \hline 63 \text{ so } 9)63 \end{array}$$

$$\begin{array}{c} 6 \\ \times 8 \\ \hline 48 \\ \text{so } 8 \end{array}$$



Divide.

a

b

C

d

e

8)56 I.

6)24

2)18

5)35

7)42

2. 6)48

6)30

8)72

6)36

9)81

3.

9)54 3)21

7)28

3)18

2)18

4.

5)45 9)36

6)42

8)64

7)63

5.

3)24 9)27

5)20

7)49

5)25



Divide.

b

C

3)9 Ι.

2)4

3)6

4)8

1)7

3)0 2.

2)10

7)14

2)6

3)54

3.

3)12

6)12

2)2

5)10

4.

5)25 4)16 3)15 8)72

2)2

Find the rule and complete each table.

5.

In	Out
21	
35	5
63	
49	
14	2

b

In	Out
12	
10	5
14	
18	9
22	

In	Out
81	
36	4
54	
72	8
9	



Divide.

a

b

C

d

e

4)28

4)4

2)18

6)18

9)63

7)63 3)27 2.

4)32

8)64

8)48

3.

4)24 9)72

8)32

5)20

9)45

4.

6)24 7)49

9)81

5)30

3)21

8)16 2)8 **5.**

7)28

7)42 6)48



Divide.

a

b

C

d

e



Divide.

a

b

C

d

e

3)15 Ι.

8)40

3)21

9)36

4)20

8)32 2.

9)9

5)35

9)81

6)36

3.

4)32 8)64

1)4

7)42

7)28

4.

6)30 3)24

6)48

9)54

3)18

5.

8)72 6)24 8)56

7)35

4)28



Divide.

a

b

C

e

Find the rule and complete each table.

5.

In	Out
12	4
30	
21	
18	
9	3

b

In	Out
32	
48	
16	2
56	7
24	

C

Out
6
3



Divide.

a

b

C

d

e

6)48

4)32

6)36

7)42

7)28

2. 9)45 8)56

6)30

9)54

7)49

3.

5)35 6)24

9)36

8)40

9)63

4.

7)21 6)54

4)20

8)32

7)56

5.

3)21 5)40

5)20

5)45

7)35



Divide.

a

b

C

d

e



Divide.

a

b

C

d

e

1. 4)36 6)54

4)8

8)16

2)12

2.

6)18 9)81

4)4

6)30

3)9

3.

7)14 3)21

5)40

3)24

4)16

1)5 4.

3)6

5)10

4)12

5)30

5.

7)49 9)63

4)32

2)14

1)8



Divide.

a

b

C

e

Find the rule and complete each table.

5.

In	Out
30	
40	8
25	
45	9
20	

b

In	Out
8	
64	8
24	
56	7
40	

In	Out
36	
18	
54	
42	7
12	2



Divide.

a

b

C

d

e

1)4 Ι.

2)16

9)63

7)42

5)20

2. 9)54

9)9

4)12

1)6

9)36

3.

8)16 5)25

2)12

4)8

3)6

4.

8)8

6)30

6)18

6)54

9)27

5.

2)14 2)10

1)3

4)20

3)18



Divide.

a

b

C

e

8)72 Ι.

2)6

7)56

3)24

4)32

7)63 2.

4)16

8)32

5)30

2)8

7)7 3.

8)24

3)27

6)6

1)8

4.

5)35 6)42 6)36 8)64

3)21

Find the rule and complete each table.

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 ÷ 9

Divide.

a

b

C

d

e

Ι.

9)27

7)7

8)64

5)40

2.

6)36

8)16

7)21

4)28

3.

CHAPTER I POSTTEST

8) 6 4

9)54

5)35

3)12

4.

9)9

7)21

2)18

3)18

5.

4)20

9)36

8)56

7)42

6.

4)32

9)81

5)10

7)49

7.

9)54

6)48

3)24

4)24

8.

3)27

5)30

6)42

2)4

9.

9)63

2)14

3)9

7)56

10.

7)7

2)8

1)9

7)28



Check What You Know

Problem Solving: Division Facts through 81 ÷ 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 ÷ 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
$$\longrightarrow$$
 8 dividend

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 ÷ 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.

I. 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 ÷ 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.

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

I. 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?

28

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

Solve each problem. Show your work under each question.

I. 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.

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.

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.

Grade 4

Solve each problem. Show your work under each question.

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.

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.

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 ÷ 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.

I. 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

C

Mid-Test Chapters 1–2

Solve each problem. Show your work under each question.

II. 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

38



Check What You Know

Dividing through 4 Digits by 1 Digit

Divide.

a

b

C

d



Dividing 2 Digits

$$\begin{array}{c} 4 \\ 8 \overline{\smash)33} \\ 33 \text{ is between } 32 \\ 33 \text{ ond } 40, \text{ so } 33 \div 8 \\ -32 \\ \hline 1 \text{ is between } 4 \text{ and } 5. \\ \hline \text{The ones digit is } 4. \end{array}$$

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

Divide.

a

b

C

d



Dividing 2 Digits

Divide.

a

b

C

d



Divide.

a

b

C

d

e

4)17 3)22 I.

4)2I

3)29

4)26

2.

8)34 8)27

4)30

7)23

5)32

3.

3)26 5)38

3)20

4)37

9)38

4.

6)21 5)42

5)26

4)35

2)15

5.

7)29 9)48

5)22

9)28



Divide.

a

b

C

d

e

7)30 Ι.

8)43

9)75

6)26

5)27

8)26 2.

6)52

9)39

4)34

9)48

3.

7)38 3)22

5)37

6)38

6)33

3)26 4.

8)58

7)51

9)84

4)30

5.

4)22 9)64

6)45

8)66



Divide.

a

b

C

d

e

8)74 Ι.

5)32

6)50

3)20

9)50

7)59 4)38 2.

8)50

4)27

9)47

3.

8)61 7)40

6)57

9)82

2)11

4.

7)48 9)73

5)47

6)44

7)68

5.

3)17 8)47 6)31

5)43



Divide.

a

b

C

d



Divide.

a

b

C

d



Divide.

a

b

C

d



Dividing 3 Digits

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

						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.

53 is between 48 and 56. 53 ÷ 8 is between 6 and 7. The ones digit is 6.

$$\begin{array}{r}
56 \\
8)453 \\
-40 \\
\hline
53 \text{ Subtract} \\
-48 \\
\hline
5 \text{ Remainder}
\end{array}$$

Divide.

a

b

C

d

e



Dividing 3 Digits

Divide.

a

b

C

d

е



Divide.

a

b

C

d



Divide.

a

b

C

d

е



Divide.

a

b

C

d



Divide.

a

b

C

d



Divide.

a

b

C

d



Divide.

a

b

C

d

е



Divide.

a

b

C

d



Divide.

a

b

C

d

е

Dividing 4 Digits

$$8 \div 4 = 2$$

 $4 \times 2 = 8$

$$11 \div 4 = 2$$
 remainder 3

$$37 \div 4 = 9$$
 remainder 1

$$\begin{array}{c|c}
 & 2 \\
 \hline
 & 9 & 7 \\
 \hline
 & -8 & 17 \\
 \hline
 & 0 & 9
\end{array}$$
divisor dividend

$$\begin{array}{c|c}
2229 & \leftarrow \text{ quotient} \\
4)8917 \\
\underline{-8} & \downarrow \\
\hline
09 \\
\underline{-8} & \downarrow \\
\hline
11 \\
\underline{-8} & \\
\hline
37 \\
\underline{-36} \\
\hline
\end{array}$$
remainder

Divide.

a

b

C

d



Divide.

a

b

C

d

2)3486

4)8572

6)3764

5)5328

2. 3)2874

2)8497

7)8598

2)8040

3. 4)2988

6)8149

7)500 I

3)6238

4. 5)7384

8)4376

2)4811

4)1583

5. 6)7391

3) 6 9 4 3

7)4795



Divide.

a

b

C

d

8)3216

4)1272

7)1502

3)296

2. 6)4811

9)788

5)554

8)1143

3. 4)362

3)1553

6)5554

7)487

4. 2)1694

4)1550

9)7155

5)2093

5. 7)4778

3)316

6)483



Divide.

a

b

C

d

8)1886

9)2591

7)3330

3)632

5)1835



Division and Place Value

Use patterns of place value to help determine the divisor.

If,
$$8 \div 2 = 4$$

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

$$80 \div _{\underline{}} = 40$$

$$80 \div 2 = 40$$

$$800 \div _{2} = 400$$

$$800 \div 2 = 400$$

$$8000 \div 2 = 4000$$

$$8000 \div 2 = 4000$$

Fill in the missing numbers.

b

$$700 \div = 100$$

$$7000 \div ___ = 1000$$

$$600 \div = 200$$

$$12000 \div ___ = 3000$$

$$1000 \div = 200$$

$$10000 \div ___ = 2000$$

$$900 \div ___ = 300$$

$$5 \div = I$$



Division and Place Value

Divide.

a

b

C

d



Divide.

a

b

C

d

3)45

9)72

2)34

4)76

6)493

3)873

7)875

5)987

7)2598

2)5282

6)5631

4)9637

6)9832

8)5000

5)7004

7)5|||

5.

5)85

8)800

5)2515

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.

quotient $\xrightarrow{}$ 76 5)380 -35 30 -30

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



Check What You Learned

Dividing through 4 Digits by 1 Digit

Divide.

b

C

d



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.

I.		the mystery books are packed in 6 boxes, how many mystery books will be in ach 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.		he bookstore plans to use 7 boxes to ship the nonfiction books. How many onfiction 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).

$$7)22$$

$$-21$$

$$1$$

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.

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

I. 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.

I. 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.

I. 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.

I. 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.

I. 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.

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
How 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

Divide.

a

b

C

d

e

Divide.

b

C

d

7. 9)81 7)56

H.

Fill in the missing numbers.

$$90 \div _{---} = 10$$

$$900 \div ___ = 100$$

$$9000 \div = 1000$$

b

$$40 \div _{---} = 20$$

12.

$$15000 \div ___ = 5000$$

$$150000 \div ___ = 50000$$

Divide.

a

b

C

d

e

Find the rule and complete each table.

0

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 moved _____ 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.

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

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 I 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.

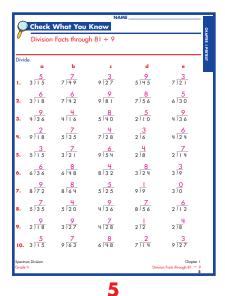
29. At baseball practice, 1,325 pitches were thrown to the players. If 5 players got the same number of pitches, how many pitches did each player get?

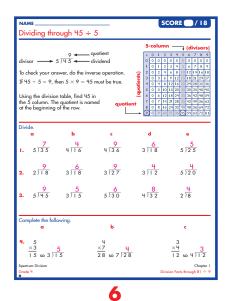
Each player got _____ pitches.

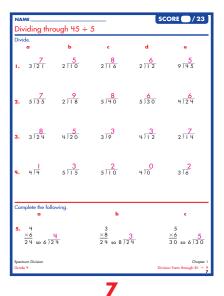
Scoring Record for Pretests, Posttests, Mid-Test, and Final Test

		Performance			
Pretests, Posttests, Mid-Test, and Final Test	Your Score	Excellent	Very Good	Fair	Needs Improvement
Chapter I Pretest	of 50	48–50	41–47	30–40	29 or fewer
Chapter I 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

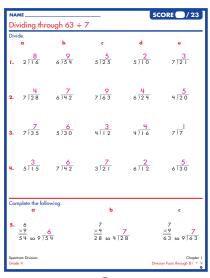
Record your test score in the Your Score column. See where your score falls in the Performance columns. Your score is based on the total number of required responses. If your score is fair or needs improvement, review the chapter material.

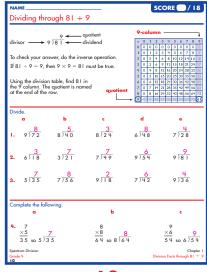






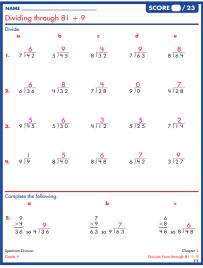
SCORE ___/ 18] Dividing through 63 ÷ 7 divisor → 7 0 6 3 ← quotient To check your answer, do the inverse operation If $63 \div 7 = 9$, then $7 \times 9 = 63$ must be true. 8 0 8 16 24 32 40 48 55 64 2 9 0 9 18 27 36 45 54 63 72 8 5)45 3)27 6)36 3)24 1. 7)49 4)24 4)32 5)45 2. 2)18 2)12 7)0 5)40 6)6 7)56 $\frac{8}{56} \times \frac{8}{56} \times 7) \frac{8}{56}$



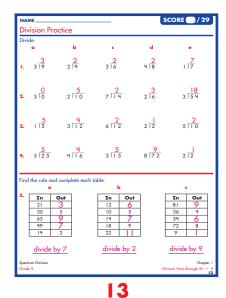


8

9



NAME			sc	ORE/25
Division Pro	ıctice			
Divide.	ь	c	d	е
1. 8)56	6)24	2)18	5)35	7)42
2. 6)48	6)30	8)72	6)36	9)81
3. 9) 6	3)2 I	7)28	3)18	2)18
4. 5)45	9)36	6)42	8)64	7)63
5. 3)24	9)27	5)20	7)49	5)25
Spectrum Division Grade 4			Divis	Chapter ion Facts through 81 ÷
		12		



П

SCORE 725

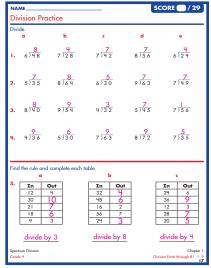
2)18 6)18 4)28 9)63 8)64 3)27 4)32 8)48 7)63 8)32 5)20 9)45 4)24 9 9 1 8 1 6)24 7)49 5)30 3)2I 2)8 8)16 7)28 7)42 6)48

SCORE ____/ 29 4)28 9)63 I. 5)30 5)35 1)9 6)36 4)24 8)32 2)14 9)27 8 8 7)56 4)36 6)42 3)24 9)54 3)27 7)63 1)7 2)16 6)54 8)24 7)42 8)56

SCORE 725 9)36 3)2I I. 3)15 4)20 9)81 5)35 6)36 8)32 8 6 4 1)4 4)32 7)42 7)28 3)24 6)48 6)30 9)54 3)18 8)72 6)24 8)56 7)35 4)28

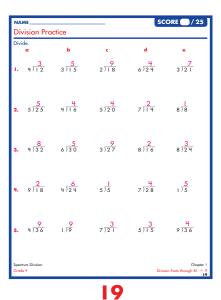
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15



	NAME SCORE/ 25 Division Practice							
_	Divide.							
Divi	de.	ь	c	d	e			
ı.	6)48	4)32	6)36	7)42	7)28			
2.	9)45	8)56	6)30	9)54	7)49			
3.	5)35	6)24	9)36	8)40	9)63			
4.	7)21	6)54	4)20	8)32	7)56			
5.	3) 2 I	5)40	5)20	5)45	7)35			
	Spectrum Dirision Chapter II Gradu 1 Dirision Facts Recogn 81 ÷ 9							

18



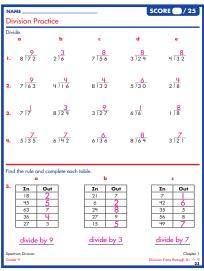
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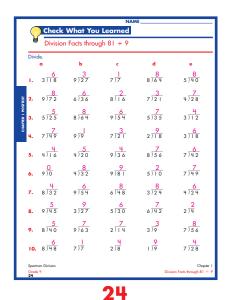
SCORE /25 8)16 I. 4)36 2)12 3)9 2. 6) I 8 9)81 4)4 6)30 3)24 5)40 3. 7)14 3)2I 4)16 3)6 5)10 4)12 5)30 **4.** 1)5 9)63 4)32 2)14 1)8 5. 7)49

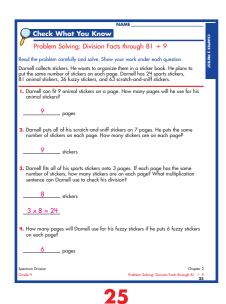
SCORE 729 1)8 3)27 1. 5)20 5)35 7)2I 8)40 7)42 8)64 3)15 6)12 8)48 6)24 2)8 9)36 4)20 2)16 6)6 Find the rule and complete each table. In Out 36 6 18 3 54 9 42 7 12 2 In Out
8 |
64 8 divide by 8 divide by 5

SCORE 725 I. 1)4 2)16 9)63 5)20 4)12 9)54 9)9 1)6 9)36 5)25 8)16 2)12 4)8 3)6 6)18 6)54 6)30 9)27 2)10 1)3 4)20 5. 2)14 3)18

20 21

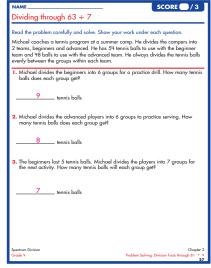






23

NAMESCORE 3
Dividing through 45 ÷ 5
Read the problem carefully and solve. Show your work under each question. Cardyn helps get 4 sailboats ready for a sailing class. She divides the supplies everly 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 $\longrightarrow 8$ divisor $\longrightarrow 2$ 1 1 6 \longleftarrow dividend
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
Spectrum Division Chapter 2 Grade 4 Problem Solving: Division Facts flarough 81 ÷ 9 26



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

Carlo fills baskets with Rowers for her morn's surprise birthday party. Each of the 8 tables will get a basket. There are 72 pink Rowers, and 64 white Rowers. Carlo wants to divide the Rowers 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 tabla litems to be equally divided between 9 people and you want to know how many items each person gets, you can write the problems like this:

63 = x = 9

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

9 x 7 = 63 x = 7

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

9 pink flowers

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

10 + x = 8

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 dreak her work?

7 x 8 = 56

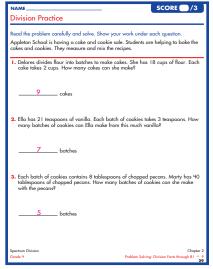
Speatum Division

Clapser 2

Pathen Sadney Division Fact Brough 81 + 9

Rowers 28

26 27 28



SCORE 3 Solve each problem. Show your work under each question 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 __ quests. 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 _____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?

30

SCORE /3 Solve each problem. Show your work under each question 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. 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. 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. $18 \div x = 9$

29

ve each problem. Show your work under each question

There were _____5___ tests passed out to each row.

Division Practice

They listened to _____8__ CDs.

Each guest gets _____9 __ pieces.

SCORE 3 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? Mr. Luiz printed 35 tests for his students. If there were 7 rows of students, how many tests were 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?

SCORE 3 Division Practice 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? 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 ___ 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.

31

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?

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?

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

The drama club will have _____8 __ groups of students.

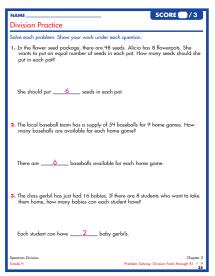
Each person ate ______ pancakes.

ve each problem. Show your work under each question.

She gave _____6__ shells to each friend.

Division Practice

SCORE 3



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. Ton's school band has 72 members. Amya's school band has 32 members, and Barbara's school band has 63 members. I. Maya's school band marches in 4 rows. How many band members are there in 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. $72 \div x = 9$ 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? $7 \times 9 = 63$ 4. Leo's school band also marches with 9 band members in each row. How many rows does the band have? 36

Mid-Test Chapters 1-2 5)25 9)81 6)18 6)54 3)27 9)72 7)49 5)5 9)36 1)9 3)24 4)28 2)14 3)6 3)9 8)16 7)35 5)15 7)42 9)45 2)2 7)63 2)6 2)18 8)32 4)24 8)72 5)20 8 8 9 4 2)16 1)1 6)36 5)45 3)15 9)54 1)5 8)48 3)21 9)9 8)24 4)36 7)14 6)42 5)45 1)2 10. 5)35 9)63

37

35

Mid-Test Chapters 1-2

Write the rule for this table.

divide by 6

Solve each problem. Show your work under each question

Each boy will get _____8 dollars.

Each person can have _____3 ___ glasses.

They should plan to see ______8 ___ different animals each hour.

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? 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. 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?

Check What You Know Dividing through 4 Digits by 1 Digit 2)15 2)142 3)180 2)42 3)63 30r2 5)152 3)521 8)55 7)70 24r2 4)98 9) 8 7 7)77 2)50 4087 2)8142 5)105 381 20rl 5)1905 6)121 7)62 2)90 7)22

SCORE 720 Dividing 2 Digits x | 1 | 2 | 3 | 4 | 5 8 | 8 | 16 | 24 | 32 | 40 8×4 8 × 4
8 3 3 3 3 3 is between 32
3 3 3 is between 32
4 0, so 33 ÷ 8
5 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)3 I 7)58 9) 8 2 5r5 6)35 5rl 5)26 8²8)66 7<mark>71</mark> 3)17 6rl 2)13 6r4 6)40 8)7 3 5)41 3 1 0 9)30 8rl 7)57 8)20 6rl 6)37 9)55 7)29 5)47 40

NA	ME		SC	ORE/ 20]				
Div	Dividing 2 Digits							
Divi								
	a	ь	c	d	е			
ı.	2)36	5)76	7)79	4)96	1 <u>3r2</u> 7)93			
2.	5)86	3)96	8)99	7)84	3) 7 5			
3.	1 <u>5r3</u> 6)93	6)72	8 B 9	1 <mark>2r5</mark> 7)89	9)99			
4.	4) <u>22</u> 4)88	3) 8 4	38rl 2)77	1 <u>9r2</u> 4)78	8)93			
Spect Grad	rum Division e 4			Dividing fi	Chapter 3 prough 4 Digits by 1 Digit 41			

	NAMESCORE							
_	Division Practice							
Divi	de.	ь	c	d	e			
ı.	4)17	3)22	4)21	3)29	6r2 4)26			
2.	8) 3 4	8)27	4)30	7)23	5)32			
3.	3)26	5)38	3)20	9 <mark>71</mark> 4)37	9)38			
4.	3 <u>r3</u> 6)21	8r2 5)42	5rl 5)26	8 <mark>73</mark> 4)35	2)15			
5.	7)29	9)48	5)22	9)28	5 <u>-4</u> 6)34			
Spectrum Division Chapter 3 Gradu 4 Dividing ferough 4 Digits by 1 Digit 12								

	NAMESCORE/25 Division Practice						
_	Divide.						
	a	ь	c	d	e		
ı.	7)30	8)43	9)75	6)26	5 <mark>72</mark> 5)27		
2.	8)26	8r 4 6)52	9)39	4)34	9) 4 8		
3.	7)38	3)22	5)37	6)38	<mark>5r3</mark> 6)33		
4.	8r2 3)26	7r2 8)58	7 <mark>7r2</mark> 7)51	9 <mark>9r3</mark> 9)84	<mark>7r2</mark> 4)30		
5.	4)22	9)64	6)45	8 <mark>8r2</mark> 8)66	<mark>9r2</mark> 7)65		
Spec Grad	trum Division le 4			Dividing I	Chapter 3 hrough 4 Digits by 1 Digit 43		

41

41

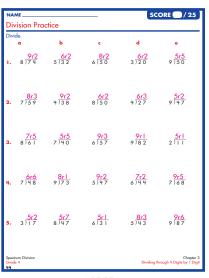
42

43

1<mark>8r</mark>l 2)37 7)96

SCORE / 25

3)56



SCORE 25 Division Practice I. 3)68 3) 8 6 2<mark>3rl</mark> 2)47 5)57 8)89 7)79 31r2 2. 3)95 32rl 2)65 21r3 4)87 3)37 3. 5)59 2^{13rl} 2⁾⁸⁷ <u>| | | r |</u> 4)45 3)64 41rl 2)83 **4.** 8)97 6)79 24r2 3)74 4)65 7)95 5. 5)72 26r l 2)53 7)86 6)81 3)47

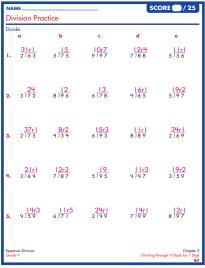
2. 5)63 8)99 5)74 1<mark>3r3</mark> 4)55 6)85 3. 2)75 2<mark>3r3</mark> 4)95 7)82 8)95 28rl 3)85 1<mark>8r3</mark> 4)75 1<mark>6r2</mark> 5)82 25r2 3)77 6)89 28rl 2)57 7)93 5)74 46rl 2)93 1<mark>6r3</mark> 3)43

1. 6)92

15r3 4)63

44

45



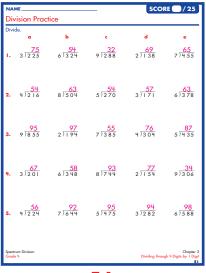
x 10 20	30 40 50 60		
480. 453 and 60. Th	ween 400 and \div 8 is between 50 the tens digit is 5.	53 is between 53 ÷ 8 is between 150 is bet	48 and 56. veen 6 and 7. is 6. 5 × 6 = 48
ь 93 4)372	41 <u>r3</u> 9)372	d 43r1 4)173	e 75 2) I 50
<mark>46r1</mark> 3)139	4)248	<mark>98r8</mark> 9)890	5)105
5)225	90r3 9)813	7)511	3 <mark>6r2</mark> 3)110
		Dividing throug	Chapter gh 4 Digits by 1 Di
	8) 4 5 - 4 0 5	93 41r3 4)372 9)372 46rl 62 3)139 4)248	5 3 3 4 5 5 6 7 6 6 6 6 6 6 6 6

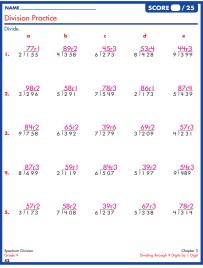
NAME	District		SCOR	E/20
Divide.	Digits			
a a	ь	c	d	e
I. 5)546	1 <mark>90r2</mark> 4)762	3)472	11 <mark>4r3</mark> 6)687	1 <mark>24r</mark> 2 8)994
3 2. 3)933	4)456		225r l 2) 4 5 l	5)750
3. 9)936	3)768	101r6 9)915	4)848	6)762
4. 2)835	1 <mark>76</mark> 2)352	109r3 7)766	1 <mark>26r2</mark> 4)506	1 <mark>43r1</mark> 2)287
Spectrum Division Grade 4			Parking description	Chapter th 4 Digits by 1 Di

47

49

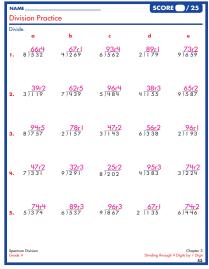
NA	ME			SCOR	E 🗍 / 25
Div	rision Practi	ice			
Divi	de.				
	a	ь	c	d	e
ı.	128r5 6)773	2)898	141r2 4)566	<mark> 30</mark> r 6 7 8	324 3)972
2.	158rl 2)317	4)732	109r8 9)989	<mark> 28</mark> r 7 8 97	1 <mark>97</mark> 2)394
3.	105r4 5)529	8) 8 97	225rl 3)676	2)348	6)930
4.	<mark>26 r </mark> 3)784	1 <u>57r</u> 3 5)788	1 <mark>60rl</mark> 3)481	111r3 5)558	30 <u>5</u> 2)610
5.	3) 3 2 4	190r3 5)953	<u> 44r4</u> 6)868	3 <mark>325</mark> 3)975	6)720
Specti Gradi	rum Division			Dividing throug	Chapter h 4 Digits by 1 Di





50

5 I



NA				sco	RE/ 25
_	vision Pract	ice			
Divi	ide.	ь		d	
ı.	216 2)432	231 4)924	6)726	5)575	3)456
2.	7)784	9)999	8)896	4) <u>848</u>	2 176 2) 9 52
3.	5)715	31 <u>4</u> 3)942	6)786	5)765	4)932
4.	3)759	2)726	5)585	7)784	2 <mark>274</mark> 2)548
5.	6)972	4)968	2)746	8)896	4)856
Spec Grad 54	trum Division de 4			Dividing throu	Chapter 3 gh 4 Digits by 1 Digit
			54		

NA	MEvision Practi			SCOR	E/ 25
Divi		ce			
DIVI	a a	ь	c	d	e
ı.	2 8r 2)437	123rl 6)739	<mark>244r3</mark> 4)979	1 <mark>98</mark> r4 5)994	1 <mark>98r2</mark> 3)596
2.	112r3 8)899	7)804	146r3 6)879	146r4 5)734	376rl 2)753
3.	1 <mark>48r3</mark> 4)595	2 <mark>49r</mark> l 3)7 48	139r5 7)978	1 <mark>47r5</mark> 6)887	1 <mark>89r3</mark> 4)759
4.	268r I 2)537	1 <mark>37r2</mark> 5)687	8)897	158r3 4)635	3) 8 3 6
5.	114r5 6)689	189r l 2)379	149r3 5)748	8)9 07	164r3 6)987
Spect Grad	trum Division de 4			Dividing through	Chapter 3 h 4 Digits by 1 Digit 55

55

53

248r2 1. 3)7 46

2. 8)978

3. 6)759

157r3 6)945

168r 2)337

SCORE 25 11<mark>3r5</mark> 7)796 178r3 235r3 4)943 6)676 1<mark>36r5</mark> 7)957 148r2 3)446 1<mark>34r2</mark> 4)538 1<mark>36r</mark>4 317r2 3)953 8)894 243r I 2) 4 87 157rl 4)629 125r4 7)879 1<mark>89r2</mark> 5)947 475rl 2)951 21<u>5r</u>2 3)647 6 8 57 429r 2 8 59 2<mark>34r2</mark>

SCORE / 25 Division Practice 1. 6)65 10r4 9)94 308r l 3)925 80r4 7)564 205r3 4)823 8)865 420rl 10r5 60r4 6)364 50r3 2. 5)253 3. 4)414 50r4 5)254 8)327 3 6 23 230r l 4. 7)423 104r3 105r4 5)529 210r2 4)842 320rl 3)961 107r4 5)539 7)738 70r3 2)241 5. 8)325

SCORE ___/ 12 Dividing 4 Digits 8)1487 654rl 6)3925 1. 3)4650 7)6496 4)8568 7)1426 3)3746 791r2 4)3166 5)8503 699rl 1158rl 2)2317

56

57

NA	ME		S	CORE / 20
-	vision Practice			
Divi	de.	ь		d
ı.	2)3486	4)8572	6)3764	1065r3 5)5328
2.	958 3)2874	4248r l 2)8 49 7	1228r2 7)8598	2)8040
3.	747 4)2988	1358r 6)8149	714r3 7)5001	2079r1 3)6238
4.	1476r4 5)7384	8)4376	2405r1 2)4811	395r3 4) I 583
5.	1231r5 6)7391	2314r1 3)6943	7)4795	1047r2 5)5237
Spect Grad	rum Division le 4		Dividin	Chapter 3 g through 4 Digits by 1 Digit 59

NAME_ Division	on Practice			SCORE / 20
Divide.				
I. 8	402)3 2 1 6	318 4)1272	214r4 7)1502	98r2 3)296
2. 6	801r5)4811	9)788	110r 4 5)554	8) I 143
3. 4	90r2)3 62	3)1553	925r4 6)5554	7)487
4. 2	847) I 694	3 <mark>87r2</mark> 4)1 550	795 9)7155	418r3 5)2093
5. 7	682r4) 4 77 8	3)316	80 <u>r3</u> 6)483	128r3 4)515
Spectrum D Grade 4 60	ivision		Dividu	Chapter ng through 4 Digits by 1 Di

NAME		- 1	SCORE 720
Division Practic	e		
Divide.	ь		d
1. 5)2013	235r6 8)1886	287r8 9)259 i	475r5 7)3330
2. 2)219	3)632	5)1835	8) 5 67
3. 6)6150	3 <mark>19r2</mark> 4)1278	5)4250	409rl 2)819
4. 9)1123	324r5 7)2273	8) 126	2897r2 3)8693
521r2 5. 4)2086	410r4 6)2464	9)1088	1149r6 8)9198
Spectrum Division Grade 4		Dividi	Chapter 3 ng through 4 Digits by 1 Digit 61

59

SCORE 724 Division and Place Value Use patterns of place value to help determine the divisor. Then, using place value, you can find the divisor in greater numbers. 80 + $\frac{2}{2}$ = 40 \longrightarrow 80 + 2 = 40 800 + $\frac{2}{2}$ = 400 \longrightarrow 800 + 2 = 400 8000 + $\frac{2}{2}$ = 4000 \longrightarrow 8000 + 2 = 4000 Fill in the missing numbers. 7 ÷ _____ = 1 6 ÷ <u>3</u> = 2 70 ÷ _____ = 10 60 ÷ __3__ = 20 700 ÷ _____ = 100 600 ÷ __3__ = 200 7000 ÷ ______ = 1000 6000 ÷ __3__ = 2000 12 ÷ <u>4</u> = 3 10 ÷ ___5__ = 2 120 ÷ _____ = 30 100 ÷ ___5_ = 20 1200 ÷ ____ = 300 1000 ÷ ___5__ = 200 12000 ÷ ____ = 3000 10000 ÷ ____5__ = 2000 5 ÷ <u>5</u> = I 9 ÷ __3_ = 3 90 ÷ ___**3**__ = 30 50 ÷ ___5_ = 10 900 ÷ <u>3</u> = 300 500 ÷ ___5__ = 100 9000 ÷ <u>3</u> = 3000 5000 ÷ ___5_ = 1000 Chapter 2 Dividing through 4 Digits by 1 Digit

SCORE / 20 Division and Place Value I. 3)300 2)6000 2)20 4)800 2. 10)400 10) 1 00 300) 90 0 0 40) I 20 0 **3.** 7)140 2)80 700) 1400 40) 1 20 300 600) 1800 2000)1 0 0 0 0 5. 8)1600 20)140 90)180 30)90

SCORE 720 Division Practice 9)72 16r2 2)34 4)76 I. 3)45 1<mark>97r2</mark> 5)987 3)873 7)875 7)2598 2641 2)5282 938r3 6)563 I 2409r I 4)9637 6)9832 1400r4 5)7004 730rl 7)5111 8)5000 8)800 5)2515 8)9840 5)85

62

63

NA				SCORE / 16
Esti	imating Quotie	nts		
	Think of wh can round to dividend (2 so that it is mentally dividend (2 so that it is 2 the divisor quotient is 3	the 4) to easy to vide by 17). The	$ \begin{array}{r} 5)378 \\ \hline $	Think of what you can round the dividend (378) to so that it is easy to mentally divide by the divisor (5).
Divid	de.	ь		ď
ı.	3)16	7)36	25 3)74	4)83
2.	4) 7	6)217	8)481	7)764
3.	9)362	280 2)563	<u>300</u> 4)1378	3 4 26 9
4.	8)2448	5)9216	9)3502	5)7358
Spectr Grade	rum Division a 4		Divis	Chapter 3 ding through 4 Digits by 1 Digit 65

			NAM	IE	
\	<i>-</i>		Learned		
	Dividin	g through 4	Digits by 1 Di	gif	
Divi	ide.	ь		d	
, i.	-	3000	16r 3)49	8)97	89 2)178
CHAPTER 3 POSTTEST	1 <u>530r</u> 4)6121	l <u>133</u> 6)798	5)557	6)636	8)889
3.	2)96	3)87	8) I 60 0	3)42	7)31
4.	9 <mark>73</mark> 8)75	9r 2)19	5r3 8)43	9 8 9	3)60
5.	3)603	5)100	6)762	7)37	2)48
Spect Grad 66	trum Division le 4			Dividing	Chapter 3 through 4 Digits by 1 Digit
			66		

Check What You Know Problem Solving: Dividing through 4 Digits by 1 Digit ad the problem carefully and solve. Show your work under each questi 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 montication books and 89 mystery books. There are 35 picture books and 00 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? 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. 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? 23 nonfiction books 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. Yes, all boxes will fit. There will be 36 books in each box with no boxes left over.

65

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

If a number does not divide into another number evenly, there will be a remainder (r). $3 \cdot r$.

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

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

Her team will need 1 extra car to bring the remaining player

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?

Two different soccer teams need to carpool to the next game. There are 16 players of 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.

SCORE 75

SCORE /4 ead the problem carefully and solve. Show your work under each que 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.
7)434
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. 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

68

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 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 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

SCORE 3

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 LO breaks each week.
2. The pool's lop 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.
The garden show is moving into a bigger area. The new area last 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.
Spactrum Division Chapter 4 Grade 4 Problem Solving: Dividing through 4 Digits by 1 Dgs 71 71

-	ivision Practice live each problem. Show your work under each question.
	A boys' club facility of the facility of the control of the facility of the fa
	Each boy picked up about 130 bags.
	There were3 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 146 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 in68 days.
	Chapter V Ade 4 Problem Solving: Dividing through 4 Digits by 1 Digit
72	soe T Process Solving: Dividing strongs of Digits by Fugit

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 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 arecity 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 dags.
Spechum Division Chapter 4 Grade 4 Problem Solving: Dividing through 4 Digits by 1 Digit 7

73

7 I

NAME

Division Practice

Solve acch problem. Show your work under each question.

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

Each baker made

1. 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.

3. The glee club needs to sell 382 lickets 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 lickets will be left?

Each member needs to sell

47 tickets.

There will be

6 extra tickets.

Estimating Quotients

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

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

Helipful Hint

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

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 Houl 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

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

About ___9___ truckboads

3. Quick Houl 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

Check What You Learned
Problem Solving: Dividing through 4 Digits by I Digit
Read the problem carefully and solve. Show your work under each question.
Kenesha, Shawna, and Jake have postard callections. They each plan to put their postards into scrapbook to organize them. Kenesha has 144 postards, Shawna has 59 pastards and Jake has 95 pastards.

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

5. postards left over
2. Jake can fit 4 postards on each page of his scrapbook. How many pages can he fill with his postards left over
2. Jake can fit 4 postards on each page of his scrapbook. How many pages can he fill with his postards left over

2. Jake can fit 4 postards on each page of his postards in the scrapbook, how many total pages with he need to use?

2. Jake total pages needs.

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

1. She needs and Shawna decide to own bine their postard callections to make a collage. Each gif will get half of the total number of postards. How many postards will cost gif get to use in the collage? How many will be left over?

1. postards

1. She have and Shawna decide to combine their postard callections to make a collage. Each gif will get half of the total number of postards. How many postards will each gif get to use in the collage? How many will be left over?

1. postards

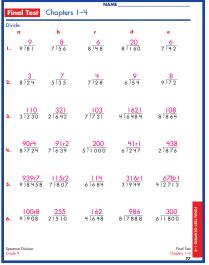
1. She have and shawna decide to combine their postard callections to make a collage. Each gif will get half of the total number of postards. How many postards will each gif get buse in the collage? How many will be left over?

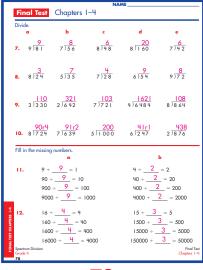
1. postards

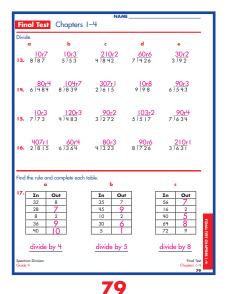
1. She have and shawna decide to combine their postards will each get get to use in the collage? How many will be left over?

1. Legal Many Andread Shawna decide to combine their postards of the combine shawna and the sh

74 75 76







inal Test Chapters 1-4

inal 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? 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. . 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? 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 _____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.

Solve each problem. Show your work under each questio 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? 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 ______6 extra miles on the last day.

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