MISSISSIPPI
DEPARTMENT OF
EDUCATION

Ensuring a bright future for every child

Grade 4 Mathematics

Practice Test

Read each question or problem carefully. Then, answer the question or work the problem. Be sure to mark your response in this test book.

1. Kennedy has 9 pencils. Reese has 7 times as many pencils as Kennedy. How many pencils does Reese have?

Ⓐ 45 pencils

Ⓑ 54 pencils

Ⓒ 63 pencils

Ⓓ 72 pencils

2. Which numbers round to $16{,}000$?

Select **two** answer choices.

Ⓐ $15{,}378$

Ⓑ $15{,}469$

Ⓒ $15{,}899$

Ⓓ $16{,}168$

Ⓔ $16{,}678$

3. Find the difference.

$$3\frac{2}{8} - 1\frac{3}{8}$$

Ⓐ $1\frac{7}{8}$

Ⓑ $2\frac{1}{8}$

Ⓒ $3\frac{7}{8}$

Ⓓ $4\frac{5}{8}$

4. Which table shows the correct conversions for pounds and ounces?

Ⓐ

Pounds	Ounces
1	16
2	17
3	18

Ⓑ

Pounds	Ounces
1	10
2	20
3	30

Ⓒ

Pounds	Ounces
2	18
4	20
6	22

Ⓓ

Pounds	Ounces
2	32
4	64
6	96

5. Find the product.

421×7

Ⓐ 2,847

Ⓑ 2,947

Ⓒ 28,147

Ⓓ 29,147

6. Lisa adds 3 and then subtracts 1 to generate a pattern of even and odd numbers that starts at 4. The pattern of numbers is shown.

$4, 7, 6, 9, 8, 11, \ldots$

What three numbers continue the pattern?

Write the answer in the boxes.

[ ] , [ ] , [ ]

7. Tony bought a pizza that was cut into 4 slices. He ate 1 slice of the pizza. Which expression generates a fraction that is equivalent to the amount of pizza Tony ate?

Ⓐ $\frac{(1 \times 1)}{(4 \times 4)}$

Ⓑ $\frac{(1 \times 2)}{(4 \times 8)}$

Ⓒ $\frac{(1 \times 3)}{(4 \times 3)}$

Ⓓ $\frac{(1 \times 4)}{(4 \times 1)}$

8. A jug holds 4 liters of water. How many milliliters of water does the jug hold?

Ⓐ 40 milliliters

Ⓑ 400 milliliters

Ⓒ $4{,}000$ milliliters

Ⓓ $40{,}000$ milliliters

9. Find the quotient.

$614 \div 3$

Ⓐ 204 R2

Ⓑ 205 R1

Ⓒ 240 R2

Ⓓ 250 R1

10. Select the box in each row that correctly compares the fraction to $\frac{1}{2}$.

	Less than $\frac{1}{2}$	Equal to $\frac{1}{2}$	Greater than $\frac{1}{2}$
$\frac{4}{5}$	○	○	○
$\frac{1}{4}$	○	○	○
$\frac{9}{10}$	○	○	○
$\frac{6}{12}$	○	○	○

11. Which equation represents a number that is 9 times as many as 3?

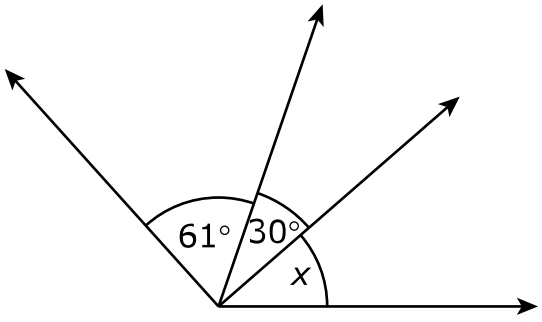
Ⓐ $3 = 9 \div 3$

Ⓑ $6 = 9 - 3$

Ⓒ $12 = 9 + 3$

Ⓓ $27 = 9 \times 3$

12. If the total measurement of the angle shown is 132°, what is the measurement of the missing angle?



Ⓐ 41°

Ⓑ 91°

Ⓒ 102°

Ⓓ 223°

13. In the number $388{,}652$, the value of the digit 8 in the ten thousands place is how many times as much as the digit 8 in the thousands place?

Ⓐ 1

Ⓑ 10

Ⓒ 100

Ⓓ $1{,}000$

14. Which numbers are composite?

Select **two** answer choices.

Ⓐ 17

Ⓑ 21

Ⓒ 29

Ⓓ 31

Ⓔ 35

15. Which decimal represents $\frac{3}{100}$?

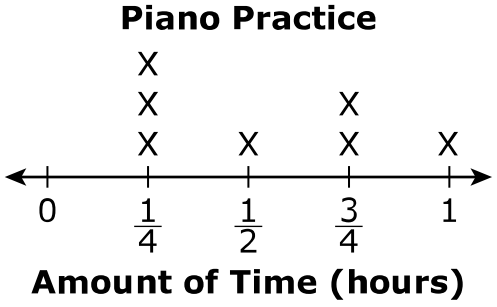
Ⓐ 0.30

Ⓑ 0.03

Ⓒ 3.01

Ⓓ 3.10

16. The line plot shows the amount of time Jasmine practiced the piano each day.



What is the total amount of time Jasmine practiced?

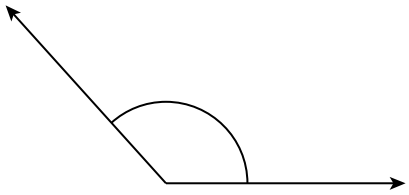
Ⓐ $2\frac{1}{2}$ hours

Ⓑ $2\frac{3}{4}$ hours

Ⓒ $3\frac{1}{2}$ hours

Ⓓ $3\frac{3}{4}$ hours

17. Which angle is shown?



Ⓐ right angle

Ⓑ acute angle

Ⓒ obtuse angle

Ⓓ straight angle

18. Jaylen read $\frac{3}{8}$ of his book on Monday. He read $\frac{2}{8}$ of his book on Tuesday. What fraction of the book has Jaylen read?

Ⓐ $\frac{1}{8}$

Ⓑ $\frac{5}{8}$

Ⓒ $\frac{5}{16}$

Ⓓ $\frac{6}{16}$

19. Find the quotient.

$4{,}070 \div 6$

Ⓐ 678 R2

Ⓑ 678 R8

Ⓒ 878 R2

Ⓓ 878 R8

20. Westbrook Elementary has 12 classes participating in field day. Each class has 24 students. The students are placed on teams of 6 to compete in each activity.

What is the minimum number of teams needed for every student to participate?

Ⓐ 45

Ⓑ 46

Ⓒ 47

Ⓓ 48

21. If $\frac{3}{4}$ of a cup of water is needed to make a cake, how much water is needed to make 6 cakes?

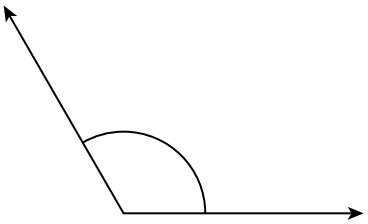
Ⓐ $\frac{9}{4}$ cups

Ⓑ $\frac{18}{4}$ cups

Ⓒ $\frac{21}{4}$ cups

Ⓓ $\frac{27}{4}$ cups

22. What is the measurement of the angle shown?



Ⓐ 118 degrees

Ⓑ 120 degrees

Ⓒ 122 degrees

Ⓓ 124 degrees

23. Find the difference.

$30{,}364 - 9{,}829$

Ⓐ 20,535

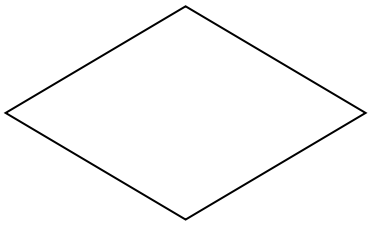
Ⓑ 21,535

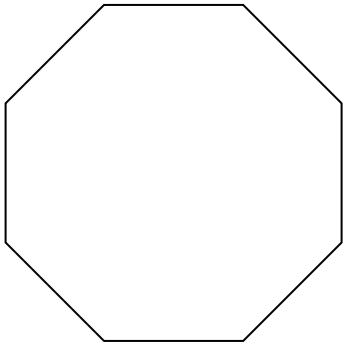
Ⓒ 30,535

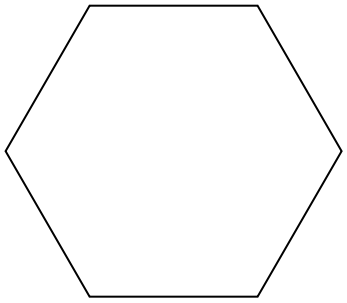
Ⓓ 31,535

24. Which figures have **<u>exactly</u>** 2 lines of symmetry?

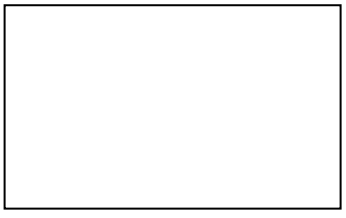
Select **<u>two</u>** answer choices.

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

Ⓔ 

25. Makayla wants to put new carpet in her rectangular-shaped room. The length of the room is 9 feet, and the area of the room is 108 square feet.

Which statement is true about the room?

Ⓐ The perimeter of the room is 21 feet.

Ⓑ The perimeter of the room is 22 feet.

Ⓒ The perimeter of the room is 41 feet.

Ⓓ The perimeter of the room is 42 feet.

26. What is the product of 76×36?

Ⓐ 654

Ⓑ 684

Ⓒ 2,636

Ⓓ 2,736

27. Select the box in each row that identifies the equivalent fraction.

	$\frac{1}{3}$	$\frac{1}{2}$	$\frac{3}{4}$
$\frac{6}{12}$	○	○	○
$\frac{75}{100}$	○	○	○
$\frac{4}{12}$	○	○	○
$\frac{5}{10}$	○	○	○

28. Which statement represents the equation?

$6 \times 7 = 42$

Ⓐ 6 times as many as 7 is 42.

Ⓑ 6 times as many as 42 is 7.

Ⓒ 7 is 42 times as many as 6.

Ⓓ 7 is 6 times as many as 42.

29. Find the difference.

$370{,}046 - 95{,}817$

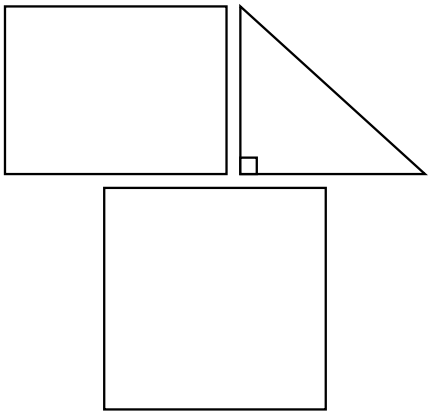
Ⓐ $274{,}129$

Ⓑ $274{,}229$

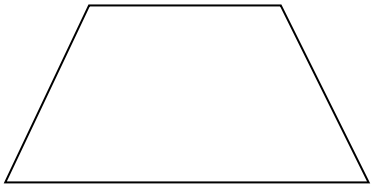
Ⓒ $275{,}229$

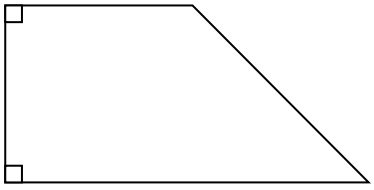
Ⓓ $275{,}231$

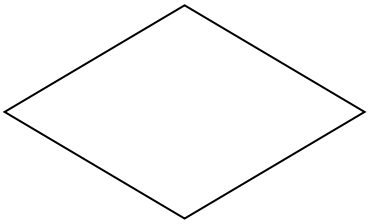
30. Joey grouped shapes by their attributes. One group of shapes is shown.

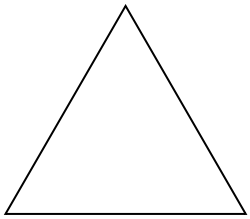


Which shape belongs in this group?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

31. Charlie baked 9 batches of cookies. Each batch used $\frac{1}{4}$ of a cup of flour. How much flour did Charlie use?

Select **two** answer choices.

Ⓐ $\frac{9}{4}$ cups

Ⓑ $\frac{10}{4}$ cups

Ⓒ $2\frac{1}{4}$ cups

Ⓓ $2\frac{2}{4}$ cups

Ⓔ $9\frac{1}{4}$ cups

32. A piece of wood is 4 feet long. How many inches long is the piece of wood?

Write the answer in the box.

☐ inches

33. A baker makes 164 cupcakes. To complete an order, he needs 36 more cupcakes. He packs the cupcakes in boxes that each hold 9 cupcakes.

How many boxes will the baker need to pack the whole order?

Ⓐ 14 boxes

Ⓑ 15 boxes

Ⓒ 22 boxes

Ⓓ 23 boxes

34. Alexis finds the product, p, of 45 and 23. Which equation justifies her answer?

Ⓐ $(40 + 2) \times (40 + 3) \times (5 + 20) \times (5 + 3) = p$

Ⓑ $(40 \times 2) + (40 \times 3) + (5 \times 20) + (5 \times 3) = p$

Ⓒ $(40 + 20) \times (40 + 3) \times (5 + 20) \times (5 + 3) = p$

Ⓓ $(40 \times 20) + (40 \times 3) + (5 \times 20) + (5 \times 3) = p$

35. Amy and Michael work together to complete a puzzle. Amy completes $\frac{9}{100}$ of the puzzle and Michael completes $\frac{3}{10}$ of the puzzle. What fraction of the puzzle has been completed?

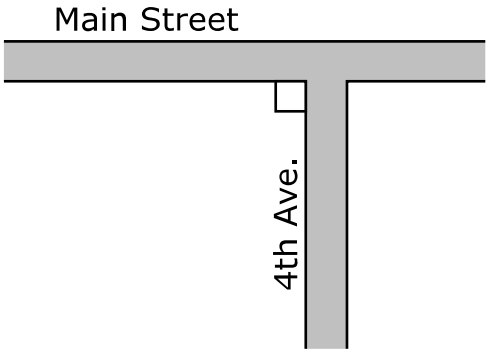
Ⓐ $\frac{11}{110}$

Ⓑ $\frac{12}{110}$

Ⓒ $\frac{39}{100}$

Ⓓ $\frac{93}{100}$

36. How many one-degree angles are represented in the angle between Main Street and 4th Avenue?



Ⓐ 45

Ⓑ 90

Ⓒ 180

Ⓓ 360

37. Ryan found the product, p, of 3 and $\frac{2}{5}$. Which equation is equivalent to $3 \times \frac{2}{5} = p$?

Ⓐ $\frac{1}{15} + \frac{1}{15} + \frac{1}{15} = p$

Ⓑ $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} = p$

Ⓒ $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} = p$

Ⓓ $\frac{1}{15} + \frac{1}{15} + \frac{1}{15} + \frac{1}{15} + \frac{1}{15} + \frac{1}{15} = p$

38. Shelby started at 23 and created the number pattern shown using the rule "add 9."

$23, 32, 41, 50, \ldots$

Which statement is true about the eighth number in the pattern?

Ⓐ The number will be 69 because the number should be odd.

Ⓑ The number will be 85 because the number should be odd.

Ⓒ The number will be 86 because the number should be even.

Ⓓ The number will be 96 because the number should be even.

39. The following question has two parts. First, answer Part A. Then, answer Part B.

Part A

What is $400{,}000 + 2{,}000 + 300 + 90$ written in standard form?

Write the answer in the box.

Part B

Compare the two numbers using $>$, $<$, or $=$.

Write the answer in the box.

$40{,}239 \square 400{,}000 + 2{,}000 + 300 + 90$

40. Which number makes the comparison true?

$5.4 < \_\_\_\_\_$

Ⓐ 5.50

Ⓑ 5.15

Ⓒ 5.29

Ⓓ 5.40

41. Jack has 20 coins. He has 5 times as many coins as Pam. How many coins does Pam have?

Ⓐ 4 coins

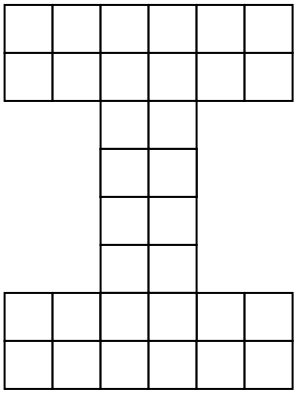
Ⓑ 5 coins

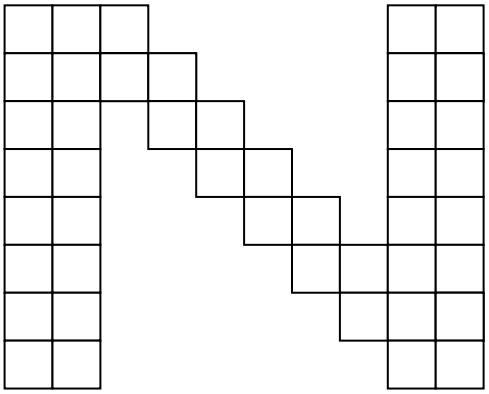
Ⓒ 15 coins

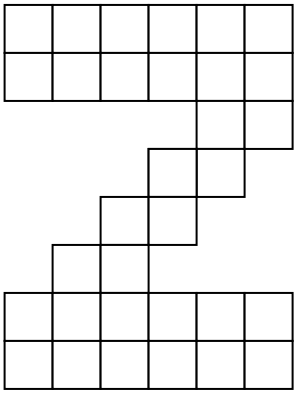
Ⓓ 25 coins

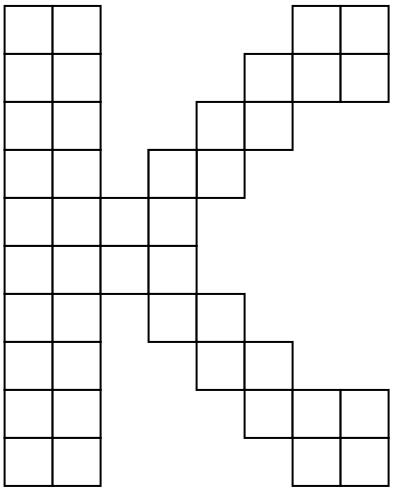
42. Which figures have a line of symmetry?

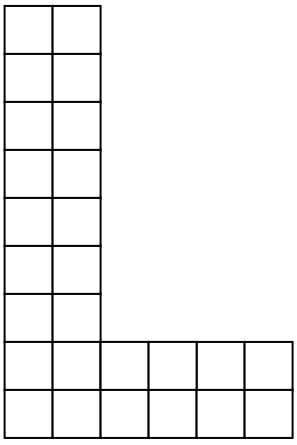
Select **two** answer choices.

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

Ⓔ 

43. A rectangle has an area of 30 square feet. The length of the rectangle is 6 feet. What is the perimeter of the rectangle?

Write the answer in the box.

[ ] feet

44. Determine if each comparison is true or false. Select the box in each row.

	True	False
$50{,}000 + 400 + 20 + 8 = 54{,}028$	○	○
$348{,}567 > 90{,}000 + 2{,}000 + 600 + 30 + 8$	○	○
forty-seven thousand, fifty-nine $= 47{,}059$	○	○
8 thousands $+ 15$ hundreds $+ 24$ ones $< 8{,}000 + 900 + 40 + 5$	○	○

45. Samantha bought $4\frac{3}{4}$ inches of white ribbon and $6\frac{2}{4}$ inches of blue ribbon. How many total inches of ribbon did Samantha buy?

Ⓐ $10\frac{1}{4}$ inches

Ⓑ $10\frac{5}{8}$ inches

Ⓒ $11\frac{1}{4}$ inches

Ⓓ $11\frac{3}{8}$ inches

46. Which statements represent the equation shown?

Select **two** answer choices.

$4 \times 8 = 32$

Ⓐ 8 is 32 more than 4.

Ⓑ 32 is 8 more than 4.

Ⓒ 4 is 8 times as many as 32.

Ⓓ 32 is 8 times as many as 4.

Ⓔ 32 is 4 times as many as 8.

47. Which expression is the expanded form of the number $341{,}652$?

Ⓐ $300{,}000 + 4{,}000 + 600 + 50 + 2$

Ⓑ $300{,}000 + 41{,}000 + 600 + 50 + 2$

Ⓒ $30{,}000 + 40{,}000 + 1{,}000 + 600 + 50 + 2$

Ⓓ $300{,}000 + 40{,}000 + 1{,}000 + 600 + 50 + 2$

48. How many lines of symmetry does this polygon have?

Ⓐ 1

Ⓑ 2

Ⓒ 3

Ⓓ 4

49. Which number pattern shown follows the rule "add 2"?

Ⓐ $1, 4, 7, 9, 11, 13, \ldots$

Ⓑ $2, 5, 7, 9, 11, 13, \ldots$

Ⓒ $3, 5, 7, 10, 13, 16, \ldots$

Ⓓ $4, 6, 8, 10, 12, 14, \ldots$

STOP

Grade 4 Math Practice Test
Paper-Pencil Answer Key Document

Sequence	Key	Standard	Possible Points
1	C	4.OA.2	1
2	C, D	4.NBT.3	1
3	A	4.NF.3c	1
4	D	4.MD.1	1
5	B	4.NBT.5	1
6	10, 13, 12	4.OA.5	1
7	C	4.NF.1	1
8	C	4.MD.2	1
9	A	4.NBT.6	1
10	3, 4, 9, 11	4.NF.2	1
11	D	4.OA.1	1
12	A	4.MD.7	1
13	B	4.NBT.1	1
14	B, E	4.OA.4	1
15	B	4.NF.6	1
16	D	4.MD.4	1
17	C	4.G.1	1
18	B	4.NF.3d	1
19	A	4.NBT.6	1
20	D	4.OA.3	1
21	B	4.NF.4c	1
22	B	4.MD.6	1
23	A	4.NBT.4	1
24	A, E	4.G.3	1
25	D	4.MD.3	1
26	D	4.NBT.5	1
27	2, 6, 7, 11	4.NF.1	2
28	A	4.OA.1	1
29	B	4.NBT.4	1
30	B	4.G.2	1
31	A, C	4.NF.4c	1
32	48	4.MD.1	1
33	D	4.OA.3	1
34	D	4.NBT.5	1
35	C	4.NF.5	1
36	B	4.MD.5b	1
37	C	4.NF.4b	1
38	C	4.OA.5	1

Grade 4 Math Practice Test
Paper-Pencil Answer Key Document

39	402,390; <	4.NBT.2	2
40	A	4.NF.7	1
41	A	4.OA.2	1
42	A, D	4.G.3	1
43	22	4.MD.3	1
44	2, 3, 5, 8	4.NBT.2	2
45	C	4.NF.3c	1
46	D, E	4.OA.1	1
47	D	4.NBT.2	1
48	B	4.G.3	1
49	D	4.OA.5	1