Mississippi MAAP 2022 Grade 4 Math Practice

Exam Materials
Pages 2 - 31

Answer Key Materials
Pages 32 - 32

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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?

Ⓐ $\dfrac{(1 \times 1)}{(4 \times 4)}$

Ⓑ $\dfrac{(1 \times 2)}{(4 \times 8)}$

Ⓒ $\dfrac{(1 \times 3)}{(4 \times 3)}$

Ⓓ $\dfrac{(1 \times 4)}{(4 \times 1)}$

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?
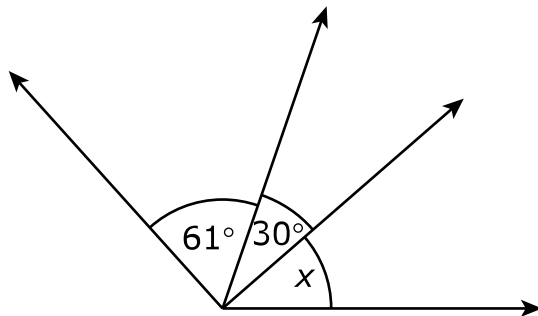
Ⓐ $3 = 9 \div 3$

Ⓑ $6 = 9 - 3$

Ⓒ $12 = 9 + 3$

Ⓓ $27 = 9 \times 3$

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

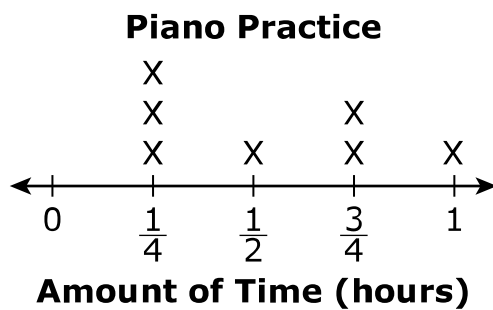**15.** Which decimal represents $\dfrac{3}{100}$?

Ⓐ 0.30

Ⓑ 0.03

Ⓒ 3.01

Ⓓ 3.10

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

Piano Practice

```
       X
       X           X
       X    X      X      X
  ←——+——+——+——+——+——→
     0   1    1    3    1
         ─    ─    ─
         4    2    4
```

Amount of Time (hours)

What is the total amount of time Jasmine practiced?

Ⓐ $2\dfrac{1}{2}$ hours

Ⓑ $2\dfrac{3}{4}$ hours

Ⓒ $3\dfrac{1}{2}$ hours

Ⓓ $3\dfrac{3}{4}$ hours

17. Which angle is shown?
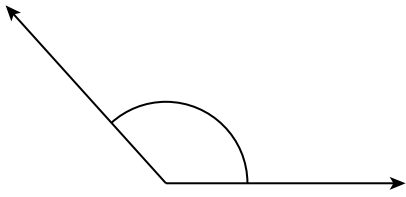
Ⓐ right angle

Ⓑ acute angle

Ⓒ obtuse angle

Ⓓ straight angle

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

Ⓐ $\dfrac{1}{8}$

Ⓑ $\dfrac{5}{8}$

Ⓒ $\dfrac{5}{16}$

Ⓓ $\dfrac{6}{16}$

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?
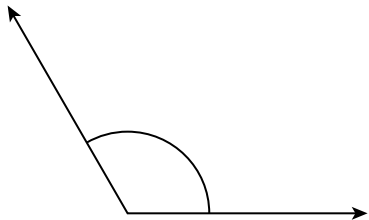
Ⓐ 45

Ⓑ 46

Ⓒ 47

Ⓓ 48

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

Ⓐ $\dfrac{9}{4}$ cups

Ⓑ $\dfrac{18}{4}$ cups

Ⓒ $\dfrac{21}{4}$ cups

Ⓓ $\dfrac{27}{4}$ cups

22. What is the measurement of the angle shown?

Ⓐ 118 degrees

Ⓑ 120 degrees

Ⓒ 122 degrees

Ⓓ 124 degrees
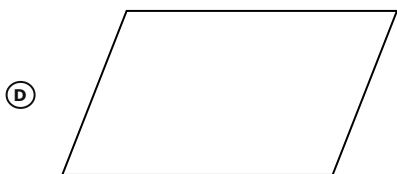
23. Find the difference.

30,364 − 9,829

Ⓐ 20,535

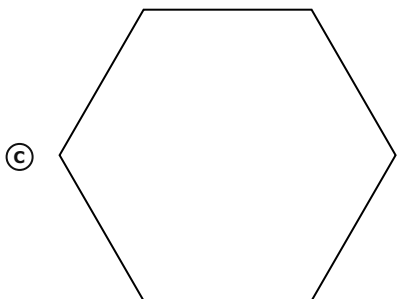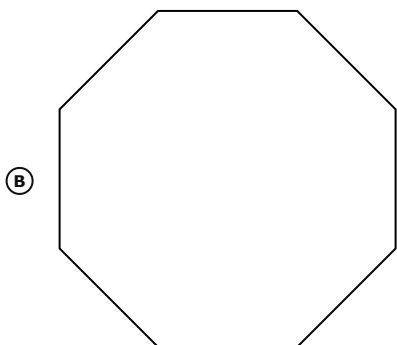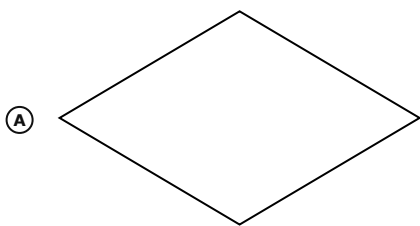Ⓑ 21,535

Ⓒ 30,535

Ⓓ 31,535

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

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

(A)

(B)

(C)

(D)

(E)

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.

9 ft. | Makayla's Room

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.

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

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.

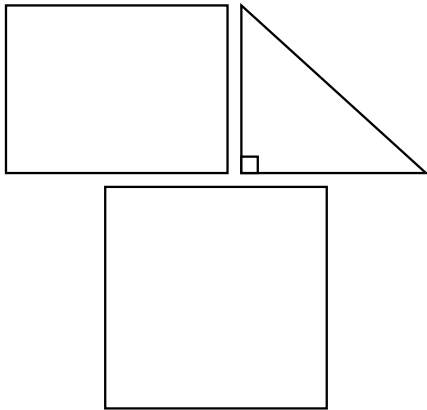**29.** Find the difference.
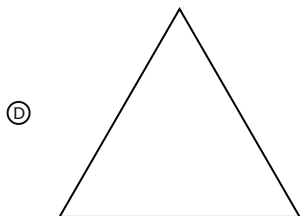
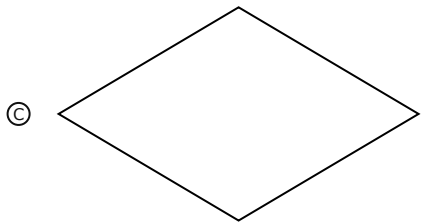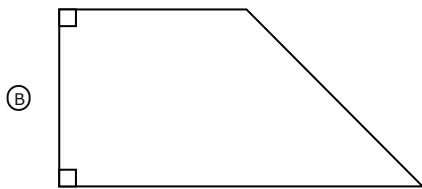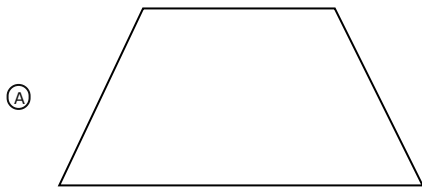$370,046 - 95,817$

Ⓐ 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 $\dfrac{1}{4}$ of a cup of flour. How much flour did Charlie use?

Select **two** answer choices.

Ⓐ $\dfrac{9}{4}$ cups

Ⓑ $\dfrac{10}{4}$ cups

Ⓒ $2\dfrac{1}{4}$ cups

Ⓓ $2\dfrac{2}{4}$ cups

Ⓔ $9\dfrac{1}{4}$ 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?
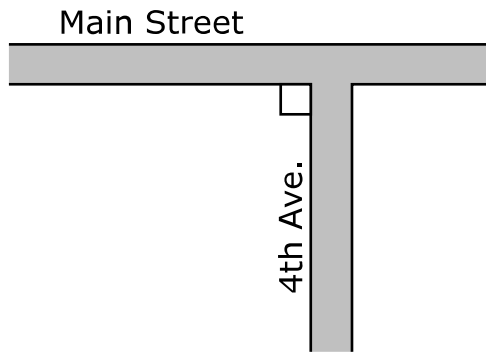
Ⓐ $\frac{11}{110}$

Ⓑ $\frac{12}{110}$

Ⓒ $\frac{39}{100}$

Ⓓ $\frac{93}{100}$

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

Main Street

4th Ave.

Ⓐ 45

Ⓑ 90

Ⓒ 180

Ⓓ 360

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

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

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

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

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

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.

$40,239$ [ ] $400,000 + 2,000 + 300 + 90$

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?
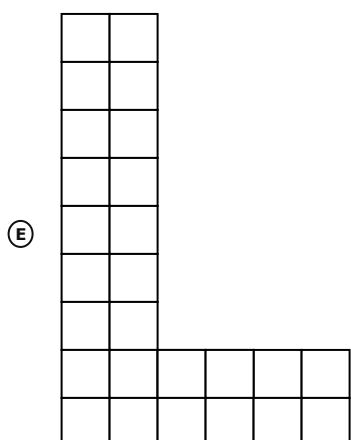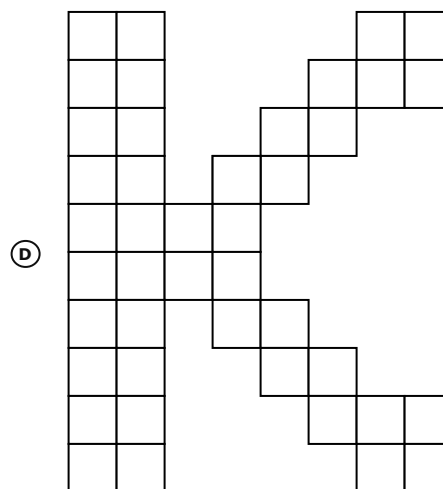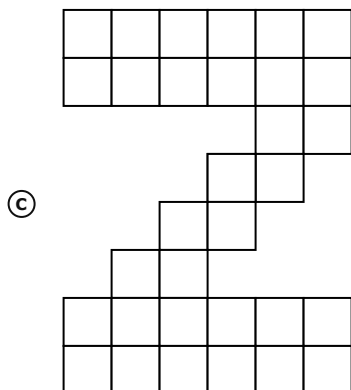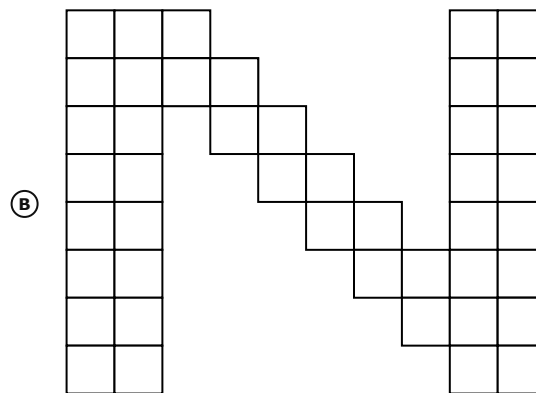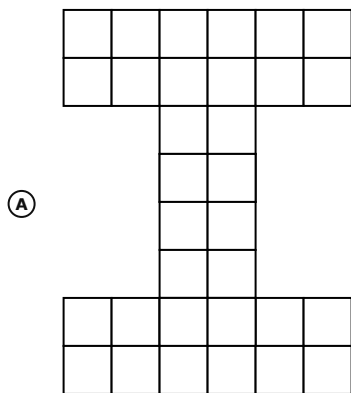
Ⓐ 4 coins

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

Ⓐ $10\dfrac{1}{4}$ inches

Ⓑ $10\dfrac{5}{8}$ inches

Ⓒ $11\dfrac{1}{4}$ inches

Ⓓ $11\dfrac{3}{8}$ 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