

Mathematics

Directions:

Today, you will be taking the Grade 4 Mathematics End-of-Year Assessment Practice Test.

Read each question carefully. Some questions will ask you to choose one correct answer, while others will ask you to choose more than one correct answer. Mark your answers by filling in the circles in your test booklet for the answers you choose.

Do not make any stray marks on the test booklet. If you need to change an answer in your test booklet, be sure to erase your first answer completely.

If you do not know the answer to a question, skip it and go on.

Directions for Completing the Answer Grids

1. Work the problem and find an answer.
2. Write your answer in the boxes at the top of the grid.
 - Print your answer starting with the first digit in the left box.
 - Print only one digit or symbol in each box. You may not need all the boxes to enter an answer, but do not leave a blank box in the middle of an answer.
3. Under each box in which you wrote your answer, fill in the bubble that matches the number or symbol you wrote above.
 - Fill in one and **ONLY** one bubble for each box. Do not fill in a bubble under an unused box.
 - Fill in each bubble by making a solid mark that completely fills the circle.
 - Fractions cannot be entered into an answer grid and will not be scored. Enter fractions as decimals.
4. See below for examples on how to correctly complete an answer grid.

To answer 632 in a question, fill in the answer grid as shown on the left in your Test Booklet.

6	3	2			
•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	•	2	2	2
3	•	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
•	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

To answer .75 in a question, fill in the answer grid as shown on the right in your Test Booklet.

.	7	5			
•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	•	5	5	5
6	6	6	6	6	6
7	•	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

1. Which statement about angles is true?

- Ⓐ An angle is formed by two rays that do not have the same endpoint.
- Ⓑ An angle that turns through $\frac{1}{360}$ of a circle has a measure of 360 degrees.
- Ⓒ An angle that turns through five 1-degree angles has a measure of 5 degrees.
- Ⓓ An angle measure is equal to the total length of the two rays that form the angle.

Use the information provided to answer Part A and Part B for question 2.

Four teachers offer an after-school chess club. The table shows the number of students who joined.

Grade	Number of Students
third	12
fourth	36
fifth	9

2. Part A

The teachers will divide the total group of students who joined into teams of **no more than 6** students.

What is the **least** number of teams that will include all of the students?

Enter your answer in the box.

⊙	⊙	⊙	⊙	⊙	⊙
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Part B

The chess club started with 18 chess sets. The teachers ordered 3 cases of 15 chess sets. They will divide the total number of chess sets so that each teacher receives an equal number. Then they will give any extra sets to the school library.

What is the **greatest** number of chess sets each of the 4 teachers should get?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

3. Ryan makes 6 backpacks. He uses $\frac{3}{4}$ yard of cloth to make each backpack. What is the total amount of cloth, in yards, Ryan uses to make all 6 backpacks?

- (A) $1\frac{1}{2}$
- (B) $2\frac{1}{4}$
- (C) $4\frac{1}{2}$
- (D) $6\frac{3}{4}$

4. A team runs a race. There are 4 people on the team, and each person runs the same distance. The team runs a total distance of 5,280 feet.

What is the distance, in feet, that each person runs?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

5. The length of a desktop is 4 feet. How many inches is the length of the desktop?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

6. Enter your answer in the box.

$$522 \div 9 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

7. Hayley has 272 beads. She buys 38 more beads. She will use 89 beads to make bracelets and the rest to make necklaces. She will use 9 beads for each necklace.

What is the **greatest** number of necklaces Hayley can make?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Use the information provided to answer Part A and Part B for question 8.

Each student in a class chose one sport to play. The table shows the fractions of all students who chose each sport.

Sport	Fraction of All Students
soccer	$\frac{3}{10}$
football	$\frac{2}{10}$
hockey	$\frac{1}{10}$
basketball	$\frac{4}{10}$

8. Part A

Which equation can be used to find s , the fraction of all students that chose to play either soccer or basketball?

- Ⓐ $\frac{3}{10} + \frac{4}{10} = s$
- Ⓑ $\frac{2}{10} - \frac{1}{10} = s$
- Ⓒ $\frac{4}{10} + \frac{2}{10} = s$
- Ⓓ $\frac{4}{10} - \frac{3}{10} = s$

Part B

What fraction of all the students chose to play either soccer or basketball?

- Ⓐ $\frac{1}{10}$
- Ⓑ $\frac{3}{10}$
- Ⓒ $\frac{6}{10}$
- Ⓓ $\frac{7}{10}$

9. The Amazon River is about 6,516 kilometers long.

The Mississippi River is about 3,775 kilometers long.

What is the difference, in kilometers, between these two lengths?

Enter your answer in the box.

⊙	⊙	⊙	⊙	⊙	⊙
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

10. Enter your answer in the box.

$$6,272 + 2,766 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

11. Mr. Kowolski ordered 35 boxes of granola bars. Each box contained 24 granola bars.

What is the total number of granola bars Mr. Kowolski ordered?

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

12. Enter your answer in the box.

$$3,950 + 405 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Use the information provided to answer Part A and Part B for question 13.

Jordan places two boards end to end to make one shelf. The first board is

$\frac{47}{100}$ meter long. The second board is $\frac{5}{10}$ meter long.

13. Part A

What fraction is equivalent to $\frac{5}{10}$ and has a denominator of 100?

- Ⓐ $\frac{5}{100}$
- Ⓑ $\frac{50}{100}$
- Ⓒ $\frac{105}{100}$
- Ⓓ $\frac{150}{100}$

Part B

What is the total length, in meters, of the two boards?

(A) $9\frac{7}{10}$

(B) $5\frac{2}{10}$

(C) $\frac{97}{100}$

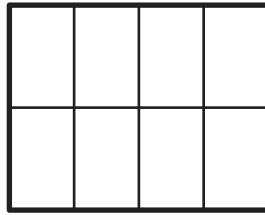
(D) $\frac{52}{100}$

14. Enter your answer in the box.

$3,649 \times 6 =$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

15. The rectangle is divided into eight equal sections.



Jodi colors 4 sections. Then she colors 3 more sections.

Which **two** of these represent the fraction of the rectangle that Jodi colors in all?

Select the **two** correct answers.

(A) $\frac{4}{8} + \frac{3}{8}$

(B) $4 + 3$

(C) $\frac{8}{4} + \frac{8}{3}$

(D) $\frac{1}{8} + 3$

(E) $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

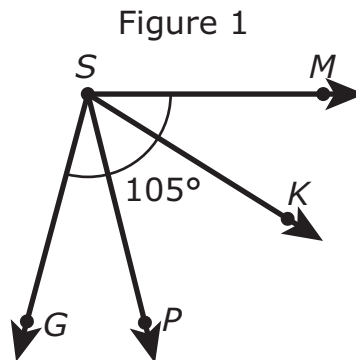
16. Mr. Soto’s bicycle weighs 30 pounds. Mr. Soto’s car weighs 90 times as much as his bicycle. What is the weight, in pounds, of Mr. Soto’s car?

Enter your answer in the box.

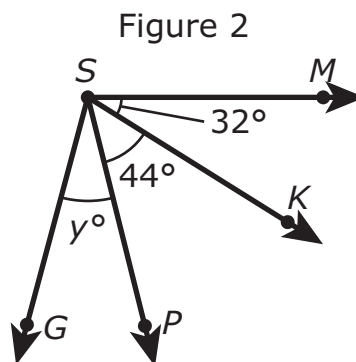
•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Use the information provided to answer Part A and Part B for question 17.

Two figures are shown. In Figure 1, the measure of angle MSG is 105° .



The measures of angle MSK , angle KSP , and angle PSG are shown in Figure 2. The measure of angle MSG is still 105° .



17. Part A

Which equation can be used to find the value of y ?

- Ⓐ $y - 44 - 32 = 105$
- Ⓑ $y \times 44 \times 32 = 105$
- Ⓒ $y \div 44 \div 32 = 105$
- Ⓓ $y + 44 + 32 = 105$

Part B

What is the value of y ?

●	●	●	●	●	●
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

18. Which **three** shapes appear to have at least two parallel sides?

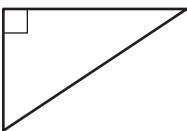
(A)



(B)



(C)



(D)



(E)



19. Enter your answer in the box.

$$5,314 - 4,983 =$$

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

20. Which **three** comparisons are correct?

- (A) 0.4 meter > 0.04 meter
- (B) 0.04 meter > 0.3 meter
- (C) 0.3 meter < 0.5 meter
- (D) 0.5 meter > 0.65 meter
- (E) 0.65 meter > 0.61 meter
- (F) 0.65 meter < 0.04 meter

21. A garden contains only bean plants and tomato plants. There are 5 rows of bean plants and 6 rows of tomato plants. Each row of bean plants has 13 plants. Each row of tomato plants has 16 plants.

What is the total number of plants in the garden?

Enter your answer in the box.

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

Use the information provided to answer Part A and Part B for question 22.

The table shows the number of computers sold at a store in three different months.

Month	Number of Computers
January	6,521
February	2,374
March	2,498

22. Part A

What is the total number of computers sold at the store in the three months?

Enter your answer in the box.

⊙	⊙	⊙	⊙	⊙	⊙
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Part B

How many **more** computers were sold at the store in January than in both February and March combined?

Enter your answer in the box.

●	●	●	●	●	●
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

23. Select the **three** choices that are factor pairs for the number 28.

- (A) 1 and 28
- (B) 2 and 14
- (C) 3 and 9
- (D) 4 and 7
- (E) 6 and 5
- (F) 8 and 3

- 24.** The number 234 is multiplied by 10. Which statement is true about the digit 2 in the product?
- Ⓐ The value of the digit 2 in the product is 20.
 - Ⓑ The value of the digit 2 in the product is 200.
 - Ⓒ The value of the digit 2 in the product is 2,000.
 - Ⓓ The value of the digit 2 in the product is 20,000.

25. Part A

Sean buys 5 packages of fish. There is $\frac{7}{8}$ pound of fish in each package.

What is the total weight, in pounds, of fish that Sean buys?

- Ⓐ $1\frac{2}{8}$
- Ⓑ $1\frac{4}{8}$
- Ⓒ $3\frac{5}{8}$
- Ⓓ $4\frac{3}{8}$

Part B

Sean cooks 1 package of the fish. He eats $\frac{3}{8}$ pound of the fish from the package.

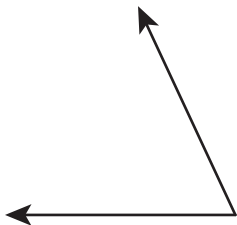
What is the total weight, in pounds, of the cooked fish that is left after Sean eats $\frac{3}{8}$ pound?

- Ⓐ $\frac{2}{8}$
- Ⓑ $\frac{3}{8}$
- Ⓒ $\frac{4}{8}$
- Ⓓ $\frac{5}{8}$

26. Which angle has a measure of 65° ?

You can use a protractor to help you find the answer.

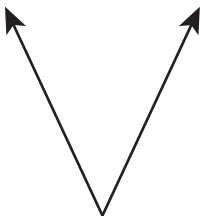
(A)



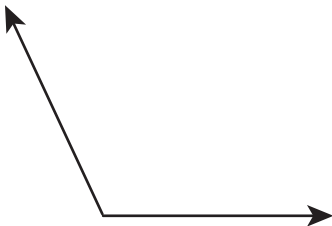
(B)



(C)



(D)



27. What number makes these fractions equal?

$$\frac{9}{10} = \frac{?}{100}$$

Enter your answer in the box.

•	•	•	•	•	•
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

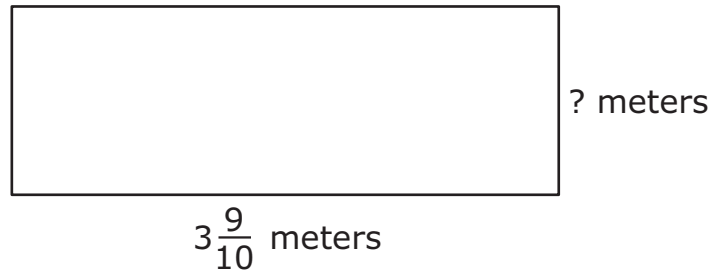
28. Which **two** equations represent the statement "48 is 6 times as many as 8"?

Select the **two** correct answers.

- (A) $48 = 6 + 8$
- (B) $48 = 6 \times 8$
- (C) $48 = 6 \times 6$
- (D) $48 = 8 + 6$
- (E) $48 = 8 \times 6$

Use the information provided to answer Part A and Part B for question 29.

The model shows a hallway in Clark's house.



29. Part A

The perimeter of the hallway is $10\frac{4}{10}$ meters.

What is the width, in meters, of the hallway?

- Ⓐ $1\frac{3}{10}$
- Ⓑ $2\frac{6}{10}$
- Ⓒ $6\frac{5}{10}$
- Ⓓ $7\frac{5}{10}$

Part B

Clark's family adds a closet that shortens the length of the hallway by $\frac{6}{10}$ meter.

What is the new perimeter, in meters, of the hallway?

- Ⓐ $3\frac{3}{10}$
- Ⓑ $6\frac{6}{10}$
- Ⓒ $9\frac{2}{10}$
- Ⓓ $9\frac{8}{10}$

30. Which expression is equivalent to $6 \times \frac{2}{3}$?

- Ⓐ $12 \times \frac{1}{2}$
- Ⓑ $12 \times \frac{1}{3}$
- Ⓒ $6 \times \frac{1}{3}$
- Ⓓ $3 \times \frac{2}{3}$

31. Select the **two** number sentences that correctly compare two fractions.

(A) $\frac{6}{12} < \frac{1}{2}$

(B) $\frac{6}{12} > \frac{1}{2}$

(C) $\frac{6}{12} = \frac{1}{2}$

(D) $\frac{8}{4} < \frac{3}{2}$

(E) $\frac{8}{4} > \frac{3}{2}$

(F) $\frac{8}{4} = \frac{3}{2}$

32. Ten numbers are shown in the box.

1	2	4	8	20
24	36	58	64	80

Which list includes all the multiples of 8 that are shown in the box?

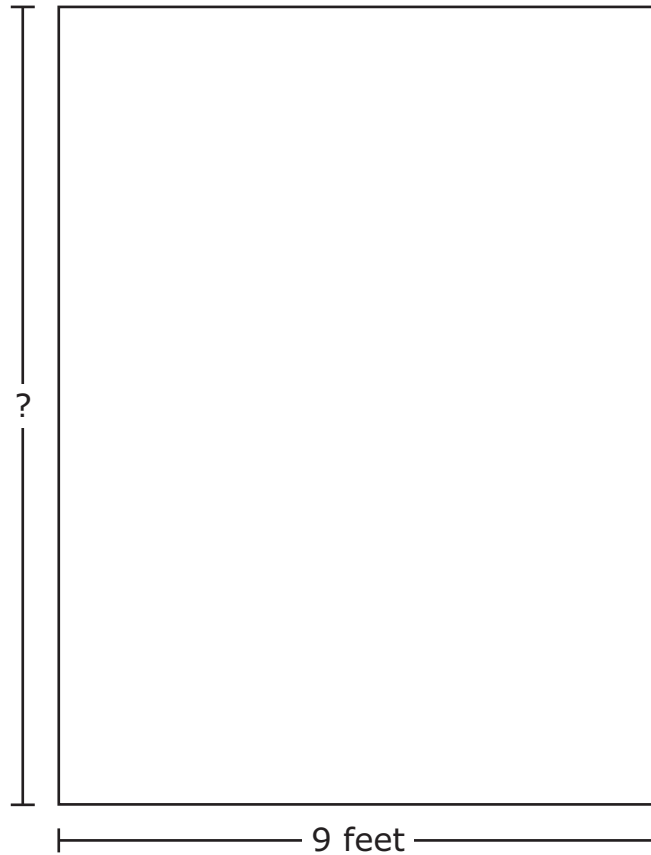
(A) 8, 58, 80

(B) 1, 2, 4, 8

(C) 8, 24, 64, 80

(D) 1, 8, 24, 64, 80

33. The area of the rectangular sandbox at Dave’s school is 108 square feet.
The sandbox has a width of 9 feet as shown in the diagram.



What is the length, in feet, of the sandbox?

Enter your answer in the box.

○	○	○	○	○	○
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Use the information provided to answer Part A and Part B for question 34.

Rachana has a set of 10 mugs. The set is made up of three different kinds of mugs.

- $\frac{1}{2}$ of the mugs have pictures on them.
- $\frac{2}{5}$ of the mugs have words on them.
- $\frac{1}{10}$ of the mugs have flowers on them.

34. Part A

Select the **three** number sentences that correctly compare two of these fractions.

Ⓐ $\frac{1}{2} < \frac{2}{5}$

Ⓑ $\frac{1}{2} > \frac{2}{5}$

Ⓒ $\frac{1}{2} < \frac{1}{10}$

Ⓓ $\frac{1}{2} > \frac{1}{10}$

Ⓔ $\frac{1}{10} < \frac{2}{5}$

Ⓕ $\frac{1}{10} > \frac{2}{5}$

Part B

Which fraction is equal to $\frac{2}{5}$?

Ⓐ $\frac{1}{10}$

Ⓑ $\frac{2}{10}$

Ⓒ $\frac{4}{10}$

Ⓓ $\frac{5}{10}$

35. Enter your answer in the box.

$7,564 + 8,239 =$

●	●	●	●	●	●
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

36. Enter your answer in the box.

$$9,751 - 2,489 =$$

●	●	●	●	●	●
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9





You have come to the end of the test.

- **Review your answers.**
- **Then, close your test booklet and raise your hand to turn in your test materials.**



4 - MTH

