



Grade 3 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.** Which groupings represent 36 apples placed equally into baskets?
Select **two** answer choices.

- Ⓐ 6 apples in 4 baskets
- Ⓑ 6 apples in 6 baskets
- Ⓒ 7 apples in 4 baskets
- Ⓓ 8 apples in 3 baskets
- Ⓔ 9 apples in 4 baskets

- 2.** Find the difference.

$$\$900 - \$631$$

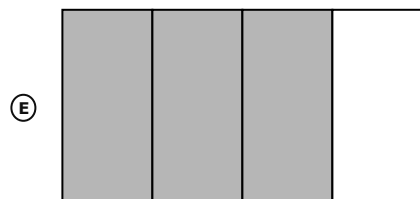
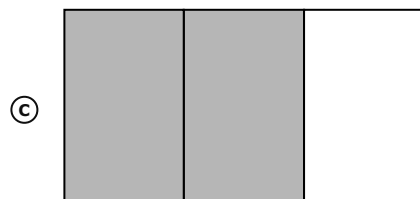
- Ⓐ \$231
- Ⓑ \$269
- Ⓒ \$331
- Ⓓ \$369

3. Which expressions or models represent the fraction $\frac{2}{3}$?

Select **two** answer choices.

Ⓐ $\frac{1}{3} + \frac{1}{3}$

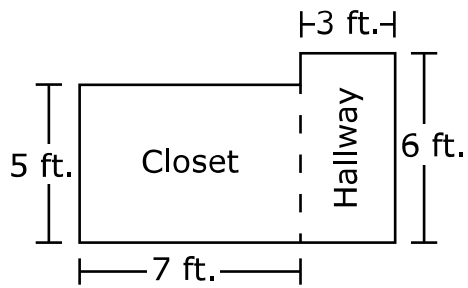
Ⓑ $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$



4. Select a box in each row to identify the expression represented by each model.

| | 6×6 | 7×5 | 8×4 | 9×3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| x | x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| x | x | x | x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

5. Principal Carlton wants new tile for a closet and a hallway in the school.



How much tile is needed for both areas?

- Ⓐ 24 square feet
- Ⓑ 53 square feet
- Ⓒ 78 square feet
- Ⓓ 110 square feet

6. Which shapes are quadrilaterals?

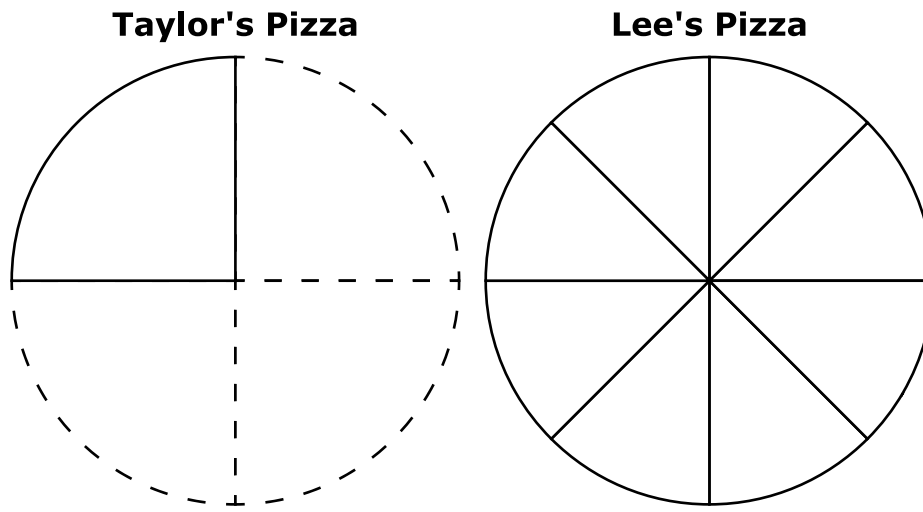
Select **two** answer choices.

- Ⓐ circle
- Ⓑ triangle
- Ⓒ hexagon
- Ⓓ rhombus
- Ⓔ trapezoid

7. If $30 \div \square = 5$, what is the missing factor?

- Ⓐ 6
- Ⓑ 7
- Ⓒ 25
- Ⓓ 35

8. Taylor and Lee buy two pizzas. Taylor's pizza is cut into 4 slices, while Lee's is cut into 8 slices. Taylor eats 3 slices of her pizza.



If Lee wants to eat the same amount, what fraction of the pizza should he eat?

- Ⓐ $\frac{3}{8}$
- Ⓑ $\frac{2}{4}$
- Ⓒ $\frac{6}{8}$
- Ⓓ $\frac{8}{4}$

9. What number makes the equation true?

$$8 \times \square = 48$$

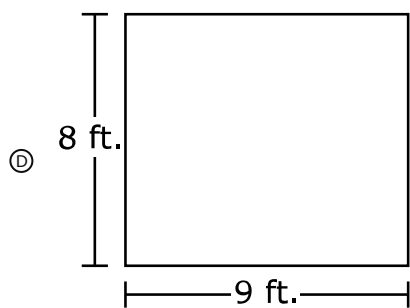
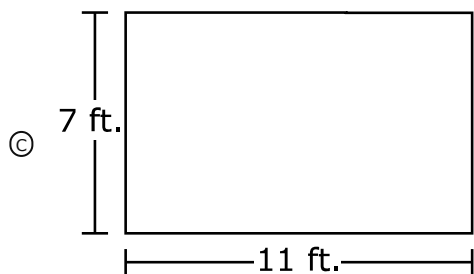
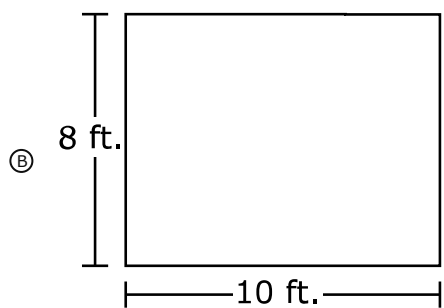
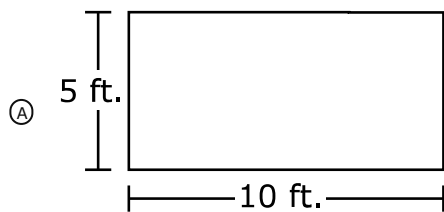
Ⓐ 5

Ⓑ 6

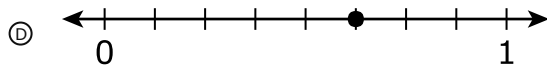
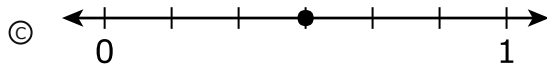
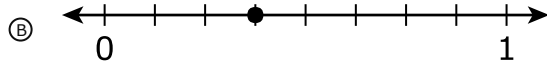
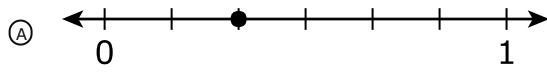
Ⓒ 7

Ⓓ 8

- 10.** Which figure has a perimeter of 30 feet?



11. Which number line shows a point at $\frac{3}{8}$?



12. What is the product of 7 and 2?

Write the answer in the box.

13. The team bus left for the game at 3:40 p.m. The bus arrived at the field 12 minutes later. What time did the bus arrive?

Ⓐ 3:28 p.m.

Ⓑ 3:30 p.m.

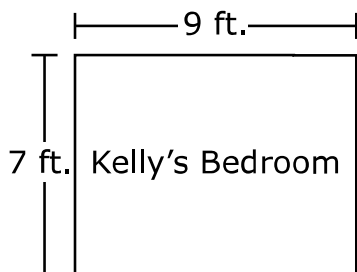
Ⓒ 3:52 p.m.

Ⓓ 3:55 p.m.

- 14.** Select a box in each row to make the statements true.

| | Odd | Even |
|---|-----------------------|-----------------------|
| When you add two odd numbers together, the answer is _____. | <input type="radio"/> | <input type="radio"/> |
| When you add two even numbers together, the answer is _____. | <input type="radio"/> | <input type="radio"/> |
| When you add an even and an odd number together, the answer is _____. | <input type="radio"/> | <input type="radio"/> |

- 15.** Kelly arranged carpet squares on the floor of her bedroom.



What is the area, in square feet, of Kelly's bedroom floor?

- Ⓐ 60 square feet
- Ⓑ 63 square feet
- Ⓒ 70 square feet
- Ⓓ 83 square feet

16. Which number rounds to 60?

Ⓐ 48

Ⓑ 55

Ⓒ 65

Ⓓ 67

17. Karen is working the multiplication problem shown.

$$19 \times 3 = \square$$

Which expression represents a strategy that Karen would use to calculate her answer?

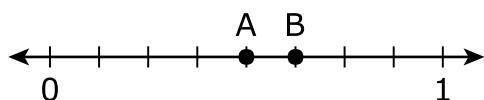
Ⓐ $(10 + 3) + (9 + 3)$

Ⓑ $(10 + 9) + (10 + 3)$

Ⓒ $(10 \times 3) + (9 \times 3)$

Ⓓ $(10 \times 9) + (10 \times 3)$

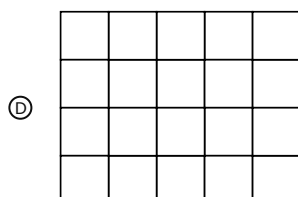
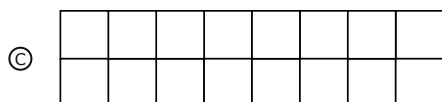
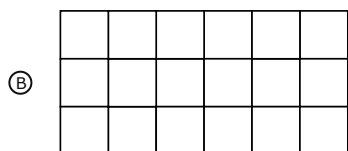
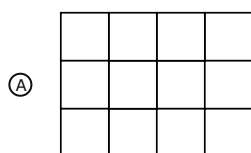
- 18.** A number line is shown.



Select a box in each row to identify if each statement about the number line is true or false.

| | True | False |
|---|-----------------------|-----------------------|
| The number line is divided into 8 equal parts. | <input type="radio"/> | <input type="radio"/> |
| Point B is at $\frac{6}{8}$. | <input type="radio"/> | <input type="radio"/> |
| Each section represents $\frac{1}{8}$ of the whole. | <input type="radio"/> | <input type="radio"/> |
| Point A is at $\frac{4}{8}$. | <input type="radio"/> | <input type="radio"/> |

- 19.** Which figure has an area of 18 square units?



- 20.** Joe has \$60 to buy 7 new shirts. If each shirt costs \$8, which equation represents the amount of money (m) Joe will have left?

Ⓐ $60 - 15 = m$

Ⓑ $60 - 56 = m$

Ⓒ $60 + 15 = m$

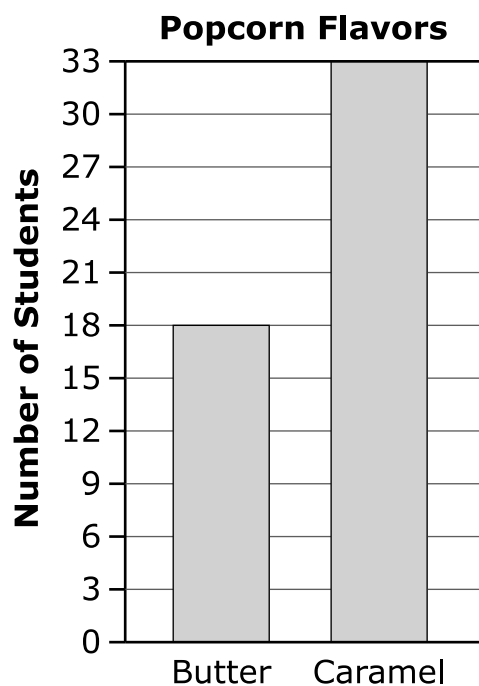
Ⓓ $60 + 56 = m$

- 21.** If Christy bought 9 2-liter bottles of lemonade, how many liters of lemonade did she buy?

Write the answer in the box.

| | |
|--|--------|
| | liters |
|--|--------|

- 22.** A group of students were asked to choose between caramel and butter popcorn flavors. The bar graph shown represents their choices.



How many more students chose caramel popcorn over butter popcorn?

- Ⓐ 15 students
- Ⓑ 16 students
- Ⓒ 25 students
- Ⓓ 51 students

- 23.** A teacher has 56 pencils and wants to put an equal number of pencils in 8 buckets. Which equations can be used to find the number of pencils (n) in each bucket?

Select **two** answer choices.

Ⓐ $56 \div 8 = n$

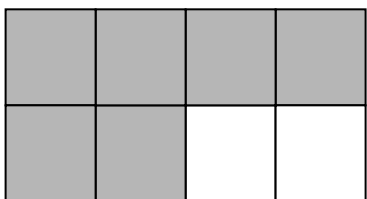
Ⓑ $56 - 8 = n$

Ⓒ $56 + 8 = n$

Ⓓ $8 \times n = 56$

Ⓔ $8 + n = 56$

- 24.** Which expression describes the shaded area of the rectangle?



Ⓐ $\frac{1}{6} + \frac{1}{6}$

Ⓑ $\frac{1}{8} + \frac{1}{8}$

Ⓒ $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$

Ⓓ $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

- 25.** John had 24 pieces of candy to give his 3 teachers. He gave each teacher the same amount of candy. How many pieces of candy did he give each teacher?

- Ⓐ 6 pieces
- Ⓑ 8 pieces
- Ⓒ 21 pieces
- Ⓓ 27 pieces

- 26.** Which equations are true?

Select a box in each row to identify if each equation is true or false.

| | True | False |
|---------------------|-----------------------|-----------------------|
| $70 \times 3 = 210$ | <input type="radio"/> | <input type="radio"/> |
| $4 \times 40 = 80$ | <input type="radio"/> | <input type="radio"/> |
| $80 \times 3 = 240$ | <input type="radio"/> | <input type="radio"/> |
| $4 \times 90 = 270$ | <input type="radio"/> | <input type="radio"/> |
| $6 \times 60 = 360$ | <input type="radio"/> | <input type="radio"/> |

- 27.** The students at North Elementary School set a goal to collect 900 box tops. The table shows the number of box tops already collected by students in two grades.

Box Tops Collected

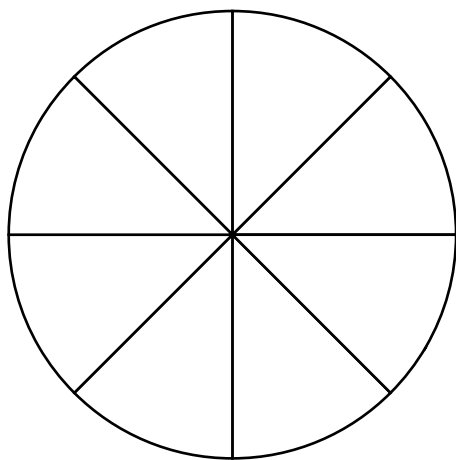
| Grade | Number of Box Tops |
|--------------|-------------------------------|
| 3 | 102 |
| 4 | 348 |

To reach their goal, how many more box tops do the students need to collect?

- Ⓐ 450
- Ⓑ 550
- Ⓒ 652
- Ⓓ 662

- 28.** Billy drew a circle and divided the circle into equal pieces as shown.

Billy's Circle



How much does each section of the circle represent?

- Ⓐ $\frac{1}{8}$
- Ⓑ $\frac{7}{8}$
- Ⓒ 1
- Ⓓ 8

- 29.** A zookeeper needs 876 kilograms of food to feed the animals. She has 287 kilograms of food. How much more food does she need to buy?

Ⓐ 287 kilograms

Ⓑ 589 kilograms

Ⓒ 599 kilograms

Ⓓ 611 kilograms

- 30.** What number makes the comparison statement true?

$$\frac{2}{3} = \frac{\square}{6}$$

Write the answer in the box.

- 31.** What factor makes the equation $45 \div \square = 5$ true?

Write the answer in the box.

- 32.** Find the difference.

$$501 - 196$$

Ⓐ 305

Ⓑ 314

Ⓒ 405

Ⓓ 495

- 33.** Bailey takes \$42 to the movies. She spends \$8 on the movie ticket and \$7 on snacks. How much money does she have left?

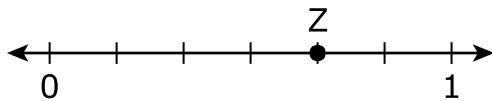
Write the answer in the box.

\$

34. Which statement represents the expression $63 \div 9$?

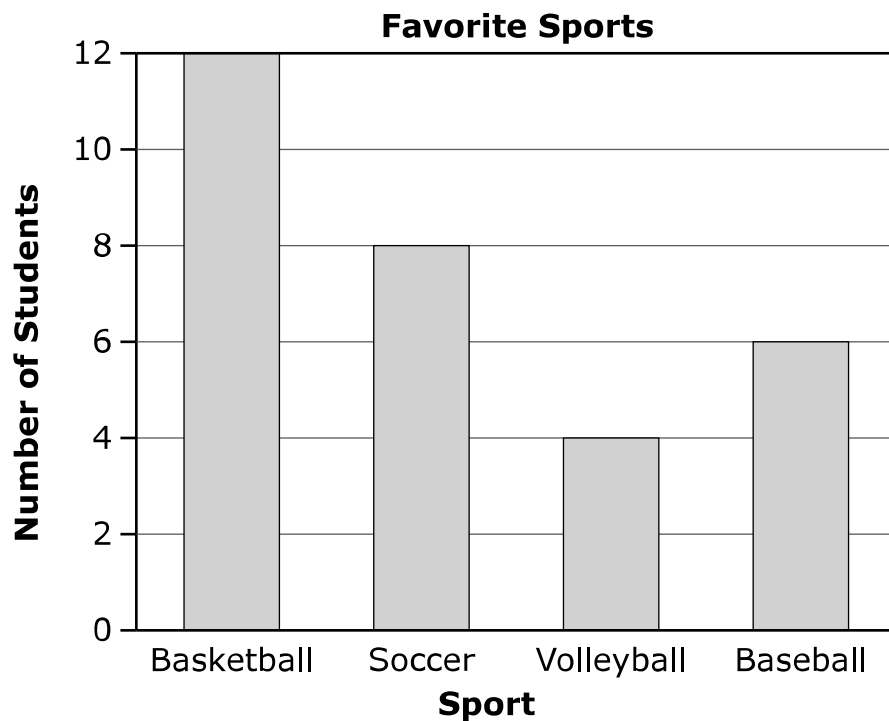
- Ⓐ Riley has 63 coins. He gives his sister 9 coins.
- Ⓑ Riley has 63 coins. His friend Jane gives him 9 coins.
- Ⓒ Riley has 63 coins. He places the same number of coins in each of his 9 containers.
- Ⓓ Riley has 63 coins. He places a different number of coins in each of his 9 containers.

35. What fraction represents point Z on the number line shown?

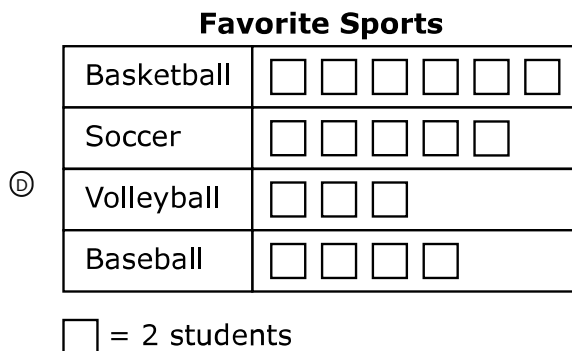
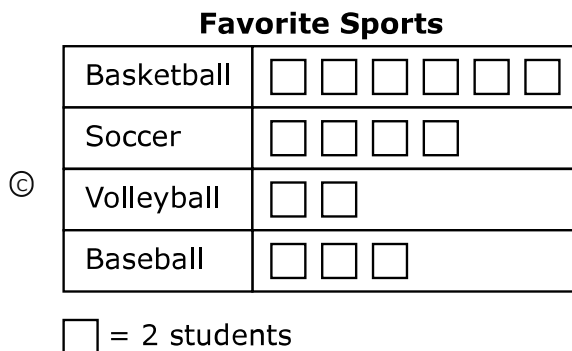
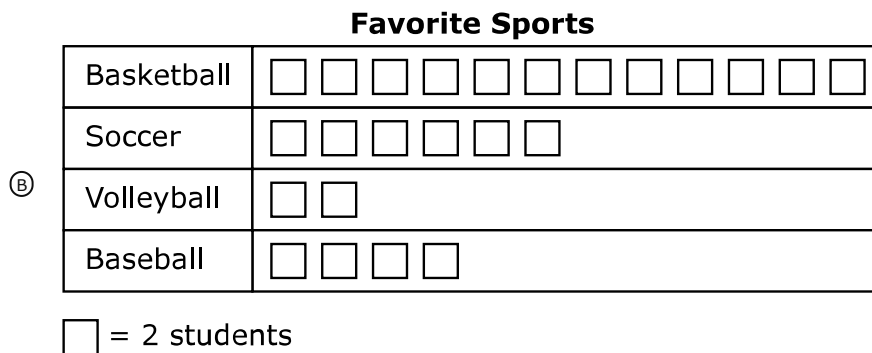
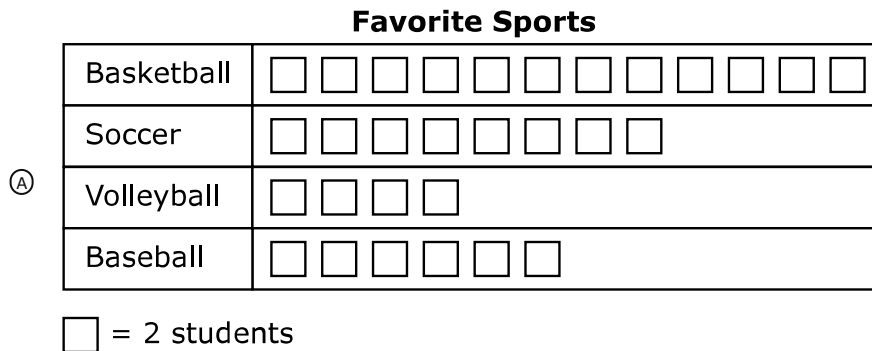


- Ⓐ $\frac{1}{4}$
- Ⓑ $\frac{1}{5}$
- Ⓒ $\frac{4}{6}$
- Ⓓ $\frac{6}{4}$

- 36.** A third grade class created a bar graph showing students' favorite sports. For homework, the teacher asked students to create a pictograph using the same data.



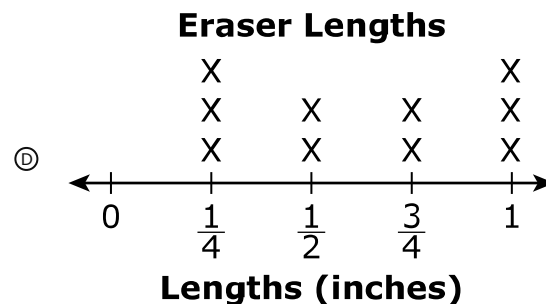
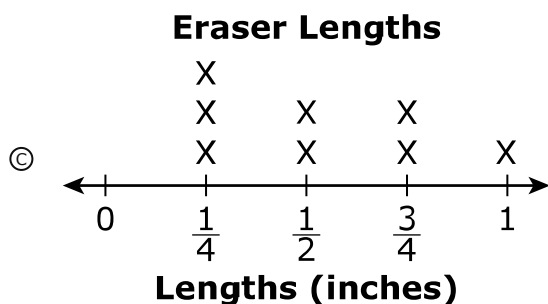
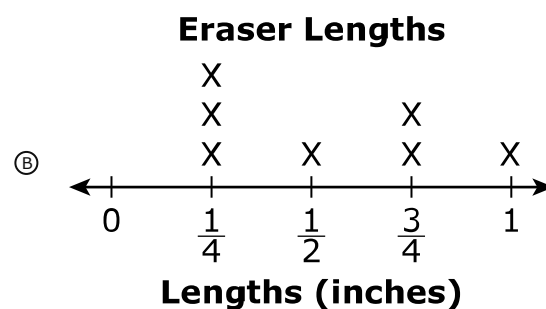
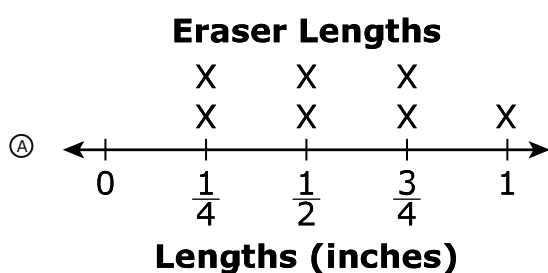
Which pictograph represents the data shown in the bar graph?



37. Which line plot shows the data in the table?

Eraser Lengths

| Length (inches) | Number of Students |
|-----------------|--------------------|
| $\frac{1}{4}$ | 3 |
| $\frac{1}{2}$ | 2 |
| $\frac{3}{4}$ | 2 |
| 1 | 1 |



38. Find the product.

$$9 \times 6$$

Write the answer in the box.

39. Sam is making cookies. It takes 10 minutes to mix the recipe and 30 minutes to bake the cookies. If Sam started making the cookies at 3:30 p.m., what time will the cookies finish baking?

Ⓐ 4:00 p.m.

Ⓑ 4:10 p.m.

Ⓒ 4:30 p.m.

Ⓓ 4:40 p.m.

40. Which grouping represents the product 16?

Ⓐ 4 groups with 4 objects each


Ⓑ 4 groups with 7 objects each

Ⓒ 6 groups with 4 objects each

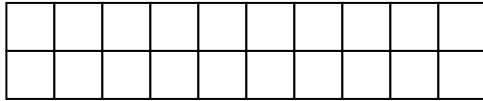
Ⓓ 8 groups with 8 objects each

41. Which figures have an area of 24 square units?

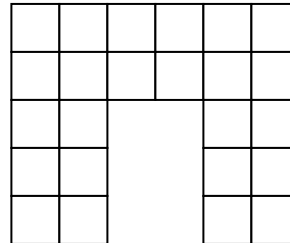
Select **two** answer choices.

 = 1 square unit

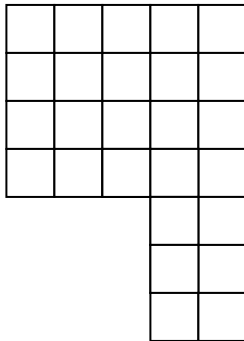
(A)



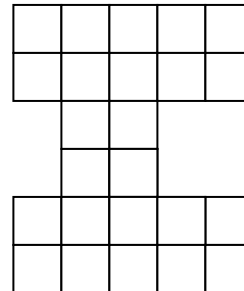
(B)



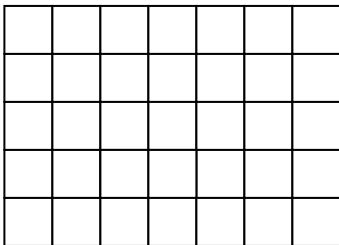
(C)



(D)

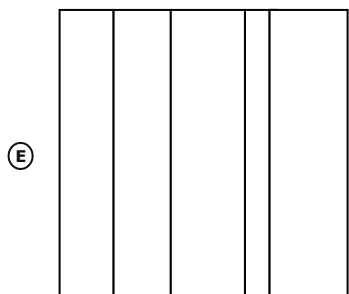
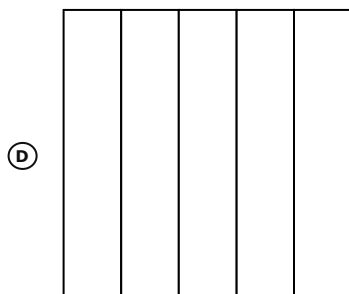
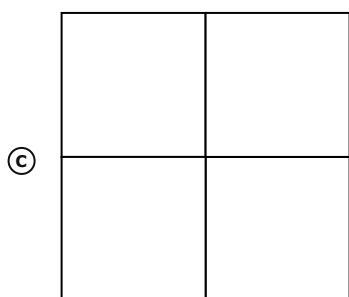
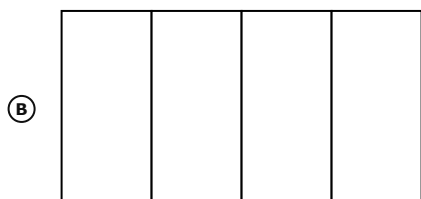
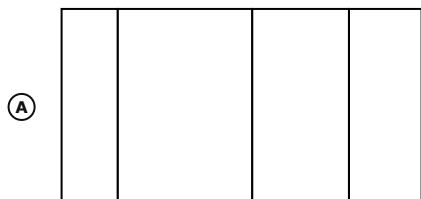


(E)



42. Which shapes show the area of each part as $\frac{1}{4}$ of the whole?

Select **two** answer choices.



- 43.** The following question has two parts. First, answer Part A. Then, answer Part B.

Zalia ordered 5 pizzas. Each pizza is cut into 8 slices.

Part A

How many total slices of pizza does Zalia have?

Write the answer in the box.

| |
|--|
| |
|--|

 slices

Part B

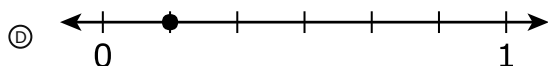
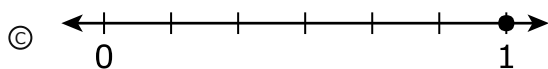
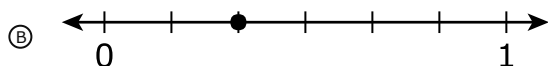
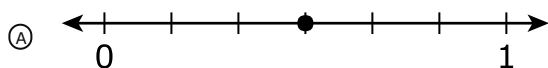
If Zalia wants to share the pizza between herself and 9 friends, how many slices of pizza will each person receive?

Write the answer in the box.

| |
|--|
| |
|--|

 slices

- 44.** Which point is equivalent to $\frac{1}{2}$ on the number line?



- 45.** What number makes the equation true?

$$5 \times \square = 300$$

- Ⓐ 6
- Ⓑ 10
- Ⓒ 30
- Ⓓ 60

- 46.** Lee created the arithmetic pattern shown.

12, 25, 38, _____

Which statement is true about Lee's pattern?

- Ⓐ The next number in the pattern will be 41 because 3 is added to the previous number.
- Ⓑ The next number in the pattern will be 48 because 10 is added to the previous number.
- Ⓒ The next number in the pattern will be 50 because 12 is added to the previous number.
- Ⓓ The next number in the pattern will be 51 because 13 is added to the previous number.

- 47.** The following question has two parts. First, answer Part A. Then, answer Part B.

Part A

Mrs. Richards has 291 papers on her desk. What is this number rounded to the nearest 10?

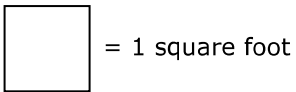
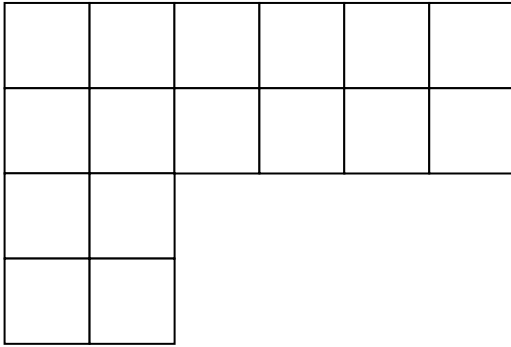
Write the answer in the box.

Part B

What is 291 rounded to the nearest 100?

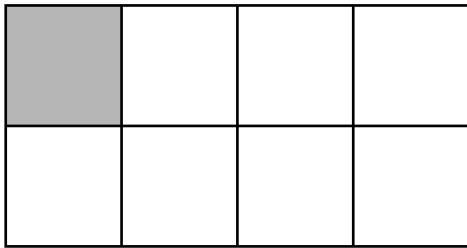
Write the answer in the box.

- 48.** The diagram shows the top of a table. What is the area?



- Ⓐ 15 square feet
- Ⓑ 16 square feet
- Ⓒ 20 square feet
- Ⓓ 24 square feet

49. What fraction of this figure is shaded?



- Ⓐ $\frac{1}{8}$
- Ⓑ $\frac{7}{8}$
- Ⓒ $\frac{8}{7}$
- Ⓓ $\frac{8}{1}$

STOP

Grade 3 Math Practice Test Paper-Pencil Answer Key Document

| Sequence | Key | Standard | Possible Points |
|----------|---------------|----------|-----------------|
| 1 | B, E | 3.OA.1 | 1 |
| 2 | B | 3.NBT.2 | 1 |
| 3 | A, C | 3.NF.1 | 1 |
| 4 | 3, 5, 10, 16 | 3.OA.1 | 1 |
| 5 | B | 3.MD.7d | 1 |
| 6 | D, E | 3.G.1 | 1 |
| 7 | A | 3.OA.6 | 1 |
| 8 | C | 3.NF.3a | 1 |
| 9 | B | 3.OA.4 | 1 |
| 10 | A | 3.MD.8 | 1 |
| 11 | B | 3.NF.2b | 1 |
| 12 | 14 | 3.OA.7 | 1 |
| 13 | C | 3.MD.1 | 1 |
| 14 | 2, 4, 5 | 3.OA.9 | 1 |
| 15 | B | 3.MD.7b | 1 |
| 16 | B | 3.NBT.1 | 1 |
| 17 | C | 3.OA.5 | 1 |
| 18 | 1, 4, 5, 7 | 3.NF.2 | 1 |
| 19 | B | 3.MD.5b | 1 |
| 20 | B | 3.OA.8 | 1 |
| 21 | 18 | 3.MD.2 | 1 |
| 22 | A | 3.MD.3 | 1 |
| 23 | A, D | 3.OA.3 | 1 |
| 24 | D | 3.NF.1 | 1 |
| 25 | B | 3.OA.3 | 1 |
| 26 | 1, 4, 5, 8, 9 | 3.NBT.3 | 2 |
| 27 | A | 3.OA.8 | 1 |
| 28 | A | 3.G.2 | 1 |
| 29 | B | 3.MD.2 | 1 |
| 30 | 4 | 3.NF.3b | 1 |
| 31 | 9 | 3.OA.6 | 1 |
| 32 | A | 3.NBT.2 | 1 |
| 33 | 27 | 3.OA.8 | 1 |
| 34 | C | 3.OA.2 | 1 |
| 35 | C | 3.NF.2b | 1 |
| 36 | C | 3.MD.3 | 1 |
| 37 | C | 3.MD.4 | 1 |
| 38 | 54 | 3.OA.7 | 1 |

**Grade 3 Math Practice Test
Paper-Pencil Answer Key Document**

| | | | |
|----|----------|---------|---|
| 39 | B | 3.MD.1 | 1 |
| 40 | A | 3.OA.1 | 1 |
| 41 | B, D | 3.MD.6 | 1 |
| 42 | B, C | 3.G.2 | 1 |
| 43 | 40, 4 | 3.OA.3 | 2 |
| 44 | A | 3.NF.3a | 1 |
| 45 | D | 3.NBT.3 | 1 |
| 46 | D | 3.OA.9 | 1 |
| 47 | 290, 300 | 3.NBT.1 | 2 |
| 48 | B | 3.MD.6 | 1 |
| 49 | A | 3.G.2 | 1 |