Read each question. Select the correct answer.

1 Which number makes a true statement?

549 > _____

A. 495

B. 550

C. 594

D. 945

2 On Wednesday, Stephanie has $367 in the bank. She gets paid on Thursday. On Thursday, she has $924 in the bank. How much did she get paid this week?

A. $1,291

B. $667

C. $643

D. $557

3 Marc needs to set up 8 rows of 5 chairs for an event. Which expression will help him find how many chairs he needs in all?
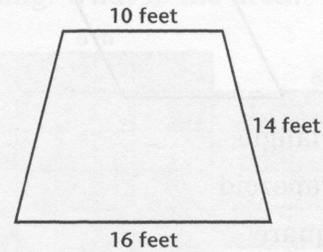
A. 8 + 5

B. 8 − 5

C. 8 × 5

D. 8 ÷ 5

4 Jonathan leaves work at the time shown on the clock. He arrives home 25 minutes later. At what time does he arrive home?

A. 3:08

B. 3:15

C. 3:25

D. 3:40

5 Sarah's home has a yard with these dimensions. What is the perimeter of Sarah's yard?

10 feet

14 feet

16 feet

A. 140 feet

B. 54 feet

C. 40 feet

D. 26 feet

6 Jose buys 7 apples, 5 pears, and 6 mangos for his family. He splits them equally between 2 bags. How many fruits are in each bag?
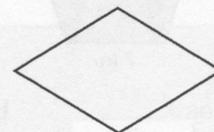
A. 6

B. 9

C. 18

D. 20

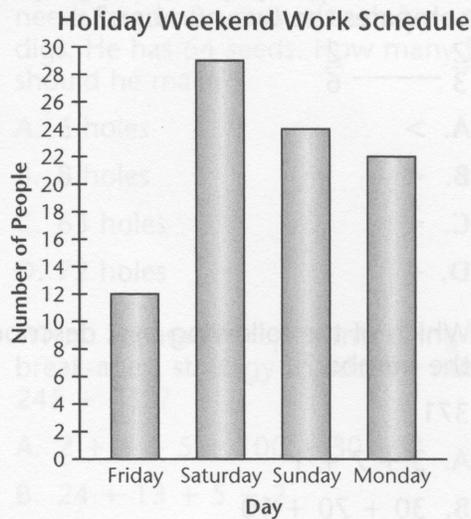**7** What is the missing number in this fact family?

8 × 7 = 56; 56 ÷ 7 = _____

A. 63

B. 49

C. 9

D. 8

8 Which two statements describe the shape?

A. It has four equal sides.

B. It has four right angles.

C. It has one pair of parallel sides.

D. It has two pairs of parallel sides.

Use the bar graph to answer questions 9 and 10.

Holiday Weekend Work Schedule

9 How many people are working over the holiday weekend?

A. 15 people　　B. 30 people

C. 53 people　　D. 87 people

10 How many more people are working on Monday than on Friday?

A. 10 people　　B. 12 people

C. 22 people　　D. 32 people

11 A shape has 5 faces and 5 vertices. Which shape could it be?

A. triangular prism

B. square pyramid

C. rectangular prism

D. pentagon

12 Which symbol best represents the relationship between the two figures?
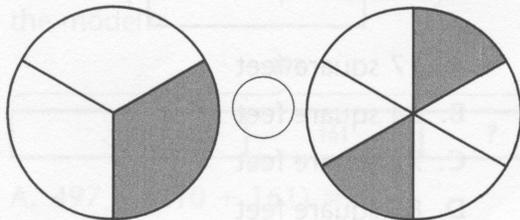
A. <

B. >

C. =

D. Cannot be compared

13 Jamal hired a handyman to do some work on his home. He paid $475 for a floor repair and $435 for painting. How much did Jamal pay the handyman?

A. $805

B. $810

C. $900

D. $910

14 Shanice has 8 boxes of 6 eggs in the kitchen. She determines how many eggs there are by using $(6 \times 5) + (6 \times 3)$. This is an example of which property?

A. Associative Property of Multiplication

B. Distributive Property

C. Commutative Property

D. It is a strategy and not a property.

15 Which equation best describes the area of the figure?
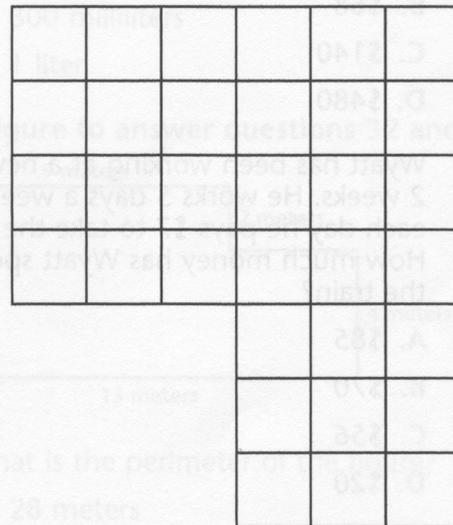
A. $(6 + 4) \times (3 + 3)$

B. $(3 + 7) \times (6 + 4)$

C. $(6 \times 4) + (3 \times 3)$

D. $(3 \times 7) + (6 \times 4)$

16 What is the name of a two-dimensional figure with 5 sides?

A. pyramid

B. pentagon

C. heptagon

D. hexagon

17 Mallory earns $734 for building a fence. Rounded to the nearest ten, how much money does Mallory earn?

A. $700

B. $730

C. $740

D. $800

18 Darnell earns $10 per hour. He works for 6 hours on Friday and 8 hours on Saturday. How much does he earn?

A. $24

B. $68

C. $140

D. $480

19 Wyatt has been working at a new job for 2 weeks. He works 5 days a week, and each day he pays $7 to take the train. How much money has Wyatt spent taking the train?

A. $85

B. $70

C. $56

D. $20

20 Which equation is represented by the model?

?		
105	134	175
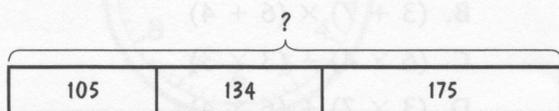
A. 105 + 134 + 175 = ?

B. 105 + 134 + ? = 175

C. 175 − 134 − 105 = ?

D. 175 − 105 = ?

21 Which inequality symbol correctly compares the two numbers?

$$\frac{2}{3} \underline{\hspace{1cm}} \frac{2}{6}$$

A. >

B. <

C. =

D. +

22 Which of the following best describes the number?
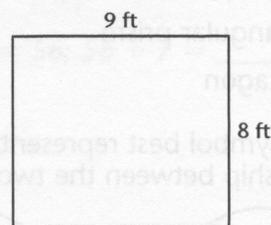
371

A. 3 + 7 + 1

B. 30 + 70 + 10

C. 300 + 7 + 1

D. 300 + 70 + 1

23 Tamara creates a mosaic. She uses 43 blue tiles, 39 yellow tiles, 17 green tiles, and 56 red tiles. How many tiles does she use in all?

A. 125 tiles

B. 135 tiles

C. 145 tiles

D. 155 tiles

24 Raquel rents a room. Her landlord gives her this floor plan. What is the area of Raquel's room?

9 ft

8 ft

A. 17 square feet

B. 34 square feet

C. 72 square feet

D. 81 square feet

25 Jake needs 29 feet of cable. He has 13 feet. How many feet of cable does he still need?

A. 16 feet of cable

B. 26 feet of cable

C. 32 feet of cable

D. 42 feet of cable

26 George plants a package of seeds. He needs to put 8 seeds in each hole that he digs. He has 64 seeds. How many holes should he make?

A. 6 holes

B. 8 holes

C. 63 holes

D. 72 holes

27 Which accurately represents using the break-apart strategy to add the numbers 245 + 132?

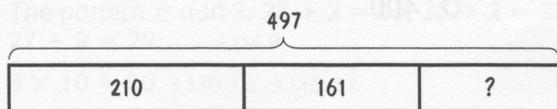A. 2 + 4 + 5 + 100 + 30 + 2

B. 24 + 13 + 5 + 2

C. 300 + 40 + 2 + 7

D. 300 + 70 + 7

28 Which of the following is an equivalent fraction to the one shown in the figure?
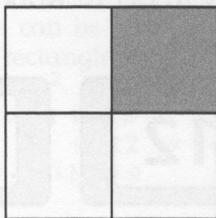
A. $\dfrac{1}{2}$

B. $\dfrac{1}{3}$

C. $\dfrac{2}{8}$

D. $\dfrac{2}{6}$

29 Which equation is represented by the model?

497		
210	161	?

A. 497 − (210 + 161) = ?

B. 497 + (210 + 161) = ?

C. 497 + ? = 210 + 161

D. 497 − ? = 210 − 161

30 The image shows part of a multiplication table. What is the missing number?

42	49
	56

A. 45

B. 48

C. 63

D. 72

31 How much water is in the measuring cup?

A. 250 milliliters

B. 275 milliliters

C. 300 milliliters

D. 1 liter

Use the figure to answer questions 32 and 33.

9 meters

2 meters
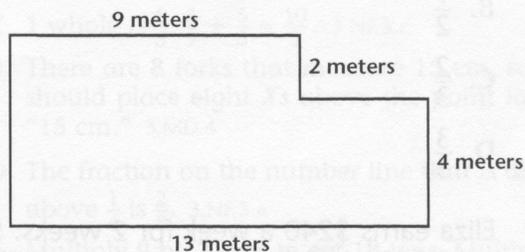
4 meters

13 meters

32 What is the perimeter of the figure?

A. 28 meters

B. 36 meters

C. 38 meters

D. 54 meters

33 What is the total area of the figure?

A. 72 square meters

B. 70 square meters

C. 54 square meters

D. 45 square meters

34 Subtract.

$$782$$
$$-389$$

A. 303

B. 393

C. 403

D. 493

35 Which shape is **NOT** a parallelogram?

A. rhombus

B. rectangle
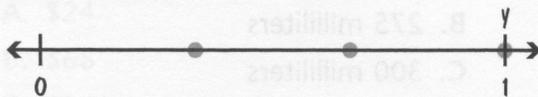
C. square

D. trapezoid

36 Point *y* is best represented by which of the following?

0   1

A. $\frac{2}{1}$

B. $\frac{1}{2}$

C. $\frac{2}{3}$

D. $\frac{3}{3}$

37 Eliza earns $240 a week for 2 weeks. She pays $290 in bills. How much does Eliza have left?

A. $48

B. $50

C. $190

D. $242

38 Which best describes the shaded region?
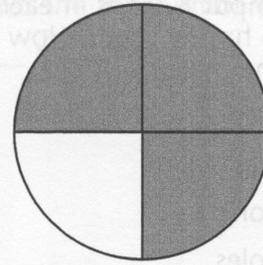
A. $\frac{1}{4}$

B. $\frac{3}{4}$

C. $\frac{4}{4}$

D. $\frac{3}{1}$

39 The first clock shows when Molly left home. The second clock shows when Molly arrived at work. How long did it take Molly to get to work?

Home   **Work**

6:12   6:49
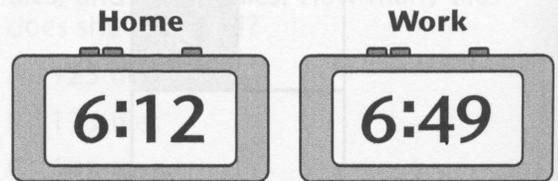
A. 23 minutes

B. 37 minutes

C. 47 minutes

D. 53 minutes

40 $5 \times 80 = ?$

A. 580

B. 480

C. 450

D. 400

1. **C.** Divide the figure to find the length of a missing side. Then $(8 \times 8) + (8 \times 4) = 96$ square centimeters. 3.MD.7.d

2. **A, B, E, F.** The shape has four sides, four right angles, and four equal sides. A square is also a rectangle, rhombus, and quadrilateral. 3.G.1

3. **D.** With no right angles, the best option for a figure with four sides and four angles is a quadrilateral. 2.G.1

4. **C.** Find the length of both missing sides. You can find the base by using $27 + 8 = 35$. You can find the missing vertical side by using $16 - 8 = 8$. The perimeter is equal to $16 + 35 + 8 + 8 + 8 + 27 = 102$ meters. 3.MD.8

5. **B.** Count the tiles, or divide the figure and use multiplication and addition to find and combine the total area. 3.MD.5.b, 3.MD.7.d

6. **D.** A square and a circle are not three-dimensional objects, and a pyramid's base is not equal to its side faces. 2.G.1

7. **B.** The area of Bedroom A = $12 \times 8 = 96$ square feet. The area of Bedroom B = $9 \times 11 = 99$ square feet. 3.MD.7.b

8. **A.** $12 + 12 = 24$. $32 - 24 = 8$ feet. 3.MD.8

9. **D.** A rhombus has four equal sides and two pairs of parallel sides. 3.G.1

10. **D.** $10 + 32 + 6 + 10 + 9 + 11 + 5 + 11 = 94$ feet. 3.MD.8

11. **A.** One out of four regions, or one fourth, of the figure is shaded. 3.G.2

12. **C.** $7 \times 5 = 35$ inches. 3.MD.8

13. **D.** A square pyramid has a square base and four triangular faces. 2.G.1

14. **B.** The area of a rectangle is the product of its length and width: 7×10. The perimeter is twice the sum of the length and width: $2 \times (10 + 7)$. 3.MD.7.a, 3.MD.8

15. **D.** A three-sided figure is a triangle. 2.G.1

16. **B.** The width is 4. The length is $(5 + 4)$. Use the Distributive Property. 3.MD.7.c

Level E | Practice Test

1. **A.** 549 is greater than 495 because 5 hundreds is greater than 4 hundreds. 2.NBT.4

2. **D.** Stephanie begins with $367 and now she has $924. To find the unknown change, subtract $924 - 367 = 557$. 2.NBT.7, 3.NBT.2

3. **C.** An array of 8 rows of 5 chairs is best solved by multiplying 8×5 for a total of 40 chairs. 3.OA.1

4. D. 3:15 plus 25 minutes is 3:40. 15 + 25 = 40. 3.MD.1

5. B. The length of the missing side is 14 feet. 10 + 14 + 14 + 16 = 54. 3.MD.8

6. B. 7 + 5 + 6 = 18. 18 ÷ 2 = 9. 3.OA.8

7. D. The fact family is 7 × 8 = 56, 8 × 7 = 56, 56 ÷ 7 = 8, 56 ÷ 8 = 7. 3.OA.4

8. A, D. The shape is a rhombus. It has four equal sides and two pairs of parallel sides. 3.G.1

9. D. 12 + 29 + 24 + 22 = 87 people. 3.MD.3

10. A. 22 − 12 = 10 people. 3.MD.3

11. B. The shape must be three-dimensional because it has faces. A square pyramid has 5 faces and 5 vertices. 2.G.1

12. C. $\frac{1}{3}$ is equivalent to $\frac{2}{6}$. The shaded area in each figure is equal even though distributed differently. 3.NF.3.a

13. D.
$$\begin{array}{r} \overset{1\ \ 1}{4\ 7\ 5} \\ +4\ 3\ 5 \\ \hline 9\ 1\ 0 \end{array}$$
Jamal paid $910. 2.NBT.7, 3.NBT.2

14. B. To find 6 × 8, you can break apart 8 as 5 + 3: 6 × 8 = 6 × (5 + 3). Then the multiplication is distributed inside the parentheses as (6 × 5) + (6 × 3). This is the Distributive Property. 3.OA.5

15. C. The figure can be broken up into arrays of 6 × 4 and 3 × 3. Combining the totals will provide the total area for the figure. 3.MD.7.d

16. B. A two-dimensional figure with 5 sides is called a pentagon. 2.G.1

17. B. Mallory earns $734. The digit 3 represents the tens value. When you look to the ones place, 4 is less than 5, so it is necessary to round down to 730. 3.NBT.1

18. C. 6 × 10 = 60, 8 × 10 = 80. $60 + $80 = $140. 3.OA.8

19. B. 2 weeks × 5 days each week = 10 days. 10 days × $7 each day = $70. 3.OA.3

20. A. The unknown is the total length of the bar, or the sum of all the parts. 2.NBT.7

21. A. $\frac{2}{3}$ is greater than $\frac{2}{6}$. Breaking a whole into six equal parts or sixths means that each piece will be smaller than if the same whole is broken into thirds. $\frac{2}{3}$ is therefore larger than $\frac{2}{6}$. 3.NF.3.d

22. D. In expanded form, 371 is 3 hundreds + 7 tens + 1 one. 2.NBT.3

23. D. 43 + 39 + 17 + 56 = 155 tiles. 2.NBT.6

24. C. 9 × 8 = 72 square feet. 3.MD.7.b

25. A. 29 − 13 = 16 feet of cable. 2.MD.6

26. B. 64 ÷ 8 = 8 holes. 3.OA.2, 3.OA.6, 3.OA.7

27. D. Separately add hundreds, tens, and ones. 200 + 100 = 300. 40 + 30 = 70. 5 + 2 = 7. 2.NBT.7, 3.NBT.2

28. C. $\frac{2}{8}$ is equivalent to $\frac{1}{4}$. The figure can easily be broken into 8 equal parts. 3.NF.3.b

29. A. The whole, or 497, is represented by the total length of the bar. The unknown is the difference between the whole and the sum of the two known parts. 2.NBT.7

30. B. The top row shows 7 × 6 = 42 and 7 × 7 = 49. The bottom row is then 8 × 6 = 48 and 8 × 7 = 56. 3.OA.9

31. B. The water line reaches the mark showing 275 milliliters. 3.MD.2

32. C. It is necessary to find the length of two missing sides. 13 − 9 = 4 and 2 + 4 = 6. The perimeter can be found by adding all of the sides together. 9 + 6 + 13 + 4 + 4 + 2 = 38 meters. 3.MD.8

33. B. 9 × 6 = 54 and 4 × 4 = 16. 54 + 16 = 70 square meters. 3.MD.7.d

34. B.
$$\begin{array}{r} \overset{6\ 17\ 12}{7\ 8\ 2} \\ -3\ 8\ 9 \\ \hline 3\ 9\ 3 \end{array}$$
2.NBT.7, 3.NBT.2

35. D. A trapezoid has exactly one pair of parallel sides, but a parallelogram has two. 3.G.1

36. D. $\frac{3}{3}$ is equal to 1 whole. 3.NF.3.c

37. C. 240 + 240 = 480. $480 − $290 = $190. 3.OA.8

38. B. 3 out of 4 parts or three fourths of the whole are shaded in. 3.NF.1

39. B. From 6:12 to 6:49 is 37 minutes. 49 − 12 = 37 minutes. 3.MD.1

40. D. 5 × 8 tens = 40 tens = 4 × 10 tens = 4 × 100 = 400. 3.NBT.3