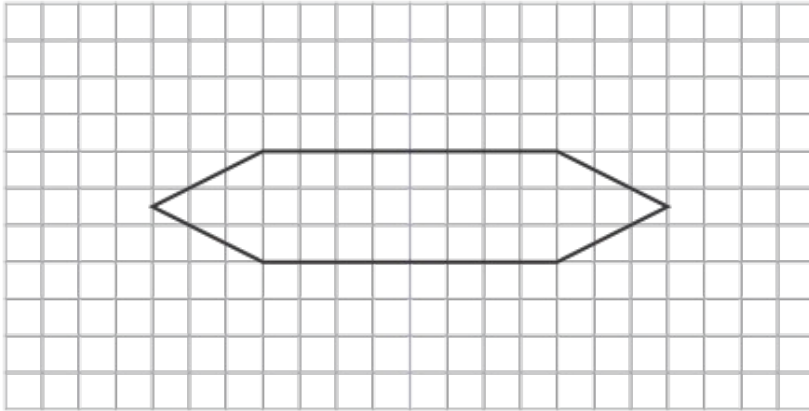TEST NAME: **6.RP & G Eog Review**
TEST ID: **1100561**
GRADE: **06 - Sixth Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**
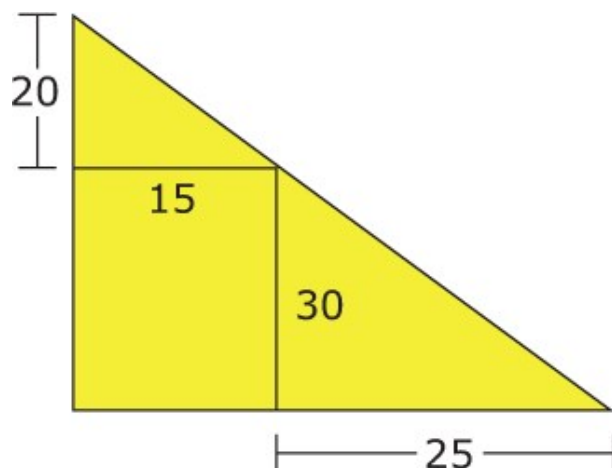
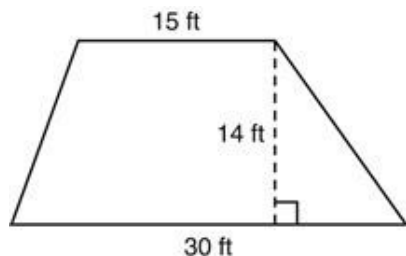1. What is the area of the figure below?

A. 21 units^2

B. 33 units^2

C. 42 units^2

D. 52 units^2

2. Danisha formed a right triangle out of two right triangles and a rectangle as shown below.

Which expression can be used to find the area of Danisha's triangle?

A. $A = (20 \times 25)$

B. $A = \frac{1}{2}(20 + 30) \times (15 + 25)$

C. $A = (20 \times 15) + (15 \times 30) + (30 \times 25)$

D. $A = \frac{1}{2}(20 \times 15) + (15 \times 30) + \frac{1}{2}(30 \times 25)$

3. **Linda has an outdoor playpen for her dogs that is shaped like the trapezoid shown below.**

What is the area of the playpen?

A. 225 square feet
B. 315 square feet
C. 630 square feet
D. 3150 square feet

4. The dimensions of a right rectangular prism are shown below.
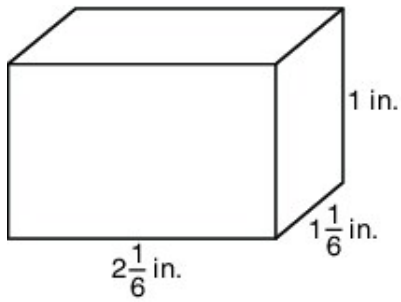
How many cubes with side lengths of $\frac{1}{6}$ inch are needed to fill the prism without gaps or overlaps?

A.   36 cubes

B.   91 cubes

C.   216 cubes

D.   546 cubes

5. A rectangular prism has the following dimensions:

- Length: 9 ft
- Width: $10\frac{1}{2}$ ft
- Height: $7\frac{1}{2}$ ft

What is the volume of the rectangular prism?

A. $708\frac{3}{4}$ ft^3

B. $481\frac{1}{2}$ ft^3

C. 189 ft^3

6. A camera company packs each camera in a cube-shaped box with side lengths of $\frac{3}{4}$-ft. Then the company ships the cameras in a container with dimensions of $1\frac{1}{2}$ ft by $2\frac{1}{4}$ ft by $1\frac{1}{2}$ ft. What is the maximum number of camera boxes that will fit in the container?

A. 7

B. 8

C. 12

D. 18

7. **The coordinates for three of the vertices of Rectangle *LMNP* are given below.**

$L(2, 4), M(4, 2), N(-1, -3)$
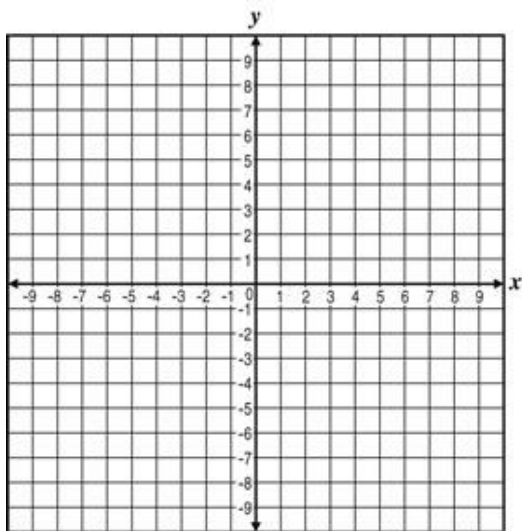
**What are the coordinates of Point *P*?**

A. $(3, 1)$

B. $(-2, -4)$

C. $(-3, 1)$

D. $(-3, -1)$

8. Seth plotted the coordinates (1, 1), (1, 5), (5, 1), and (5, 5) on a coordinate plane. He connected each point in that order. He drew an additional line connecting (1, 1) and (5, 5). Which shapes did he draw?

A. a square and a rectangle

B. a rectangle and a triangle

C. two triangles

D. two rectangles

9. Three of the vertices of rectangle *GHIJ* are located at *G*(5, ⁻1), *I*(⁻1, ⁻4), and *J*(5, ⁻4). What are the coordinates of vertex *H*?
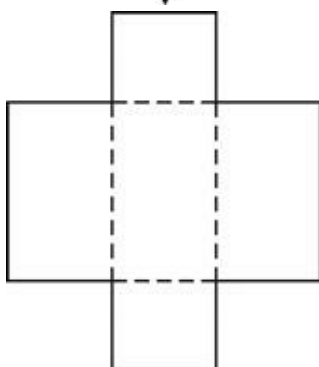
A. (1, 4)

B. (1, 1)

C. (⁻1, 4)

D. (⁻1, ⁻1)

10. **Which pattern can be folded on the dotted lines to make a triangular prism like the one shown below?**
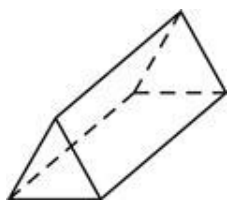
A.
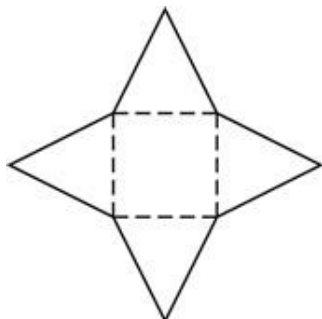
B.

C.
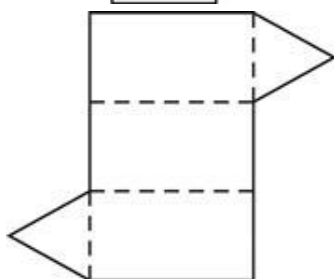
D.
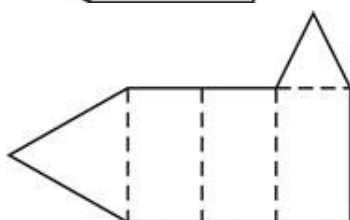
11. Danielle bought a gift for her sister and put it in the box below. She wants to wrap the box with wrapping paper.

20 in.

6 in.

4 in.
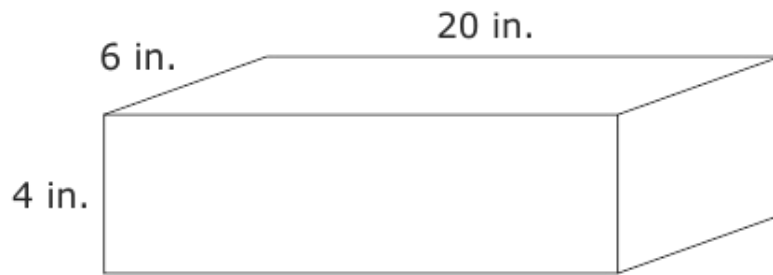
What is the minimum amount of wrapping paper Danielle needs to cover the box?

A. 224 in.^{2}

B. 328 in.^{2}

C. 448 in.^{2}

D. 480 in.^{2}

12. The net of a right triangular prism is shown below.

10 ft

6 ft

8 ft

6 ft
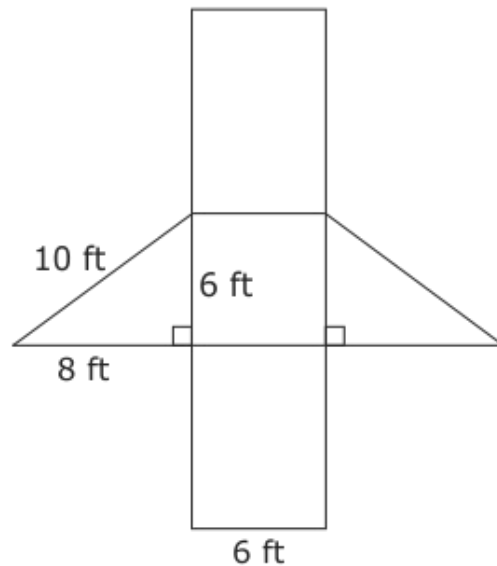
What is the surface of the triangular prism?

A. 288 ft^2

B. 224 ft^2

C. 192 ft^2

D. 144 ft^2

13. **What is the ratio of shaded to unshaded squares in the grid below?**
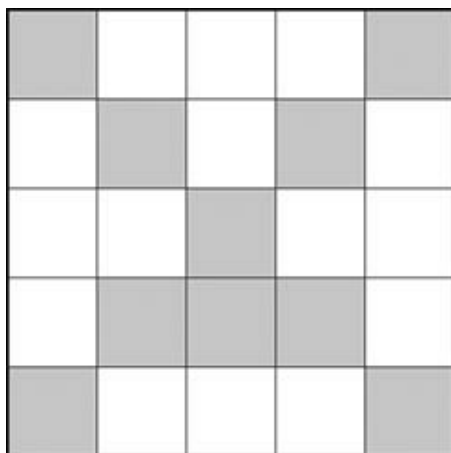
A. $\dfrac{1}{3}$

B. $\dfrac{2}{5}$

C. $\dfrac{3}{5}$

D. $\dfrac{2}{3}$

14. The table shows the items sold at a bake sale.

Items in a Bake Sale

Baked Good	Number Sold
cookies	50
cupcakes	25
muffins	20
brownies	32

What is the ratio of brownies sold to the total number of cupcakes and cookies sold?

A. 32 : 95

B. 32 : 75

C. 32 : 50

D. 50 : 75

schoolnet

15. John has a collection of toy cars. He has 2 red cars, 4 blue cars, 4 black cars, and 6 yellow cars. What is the ratio of red cars to yellow cars?

    A. 1 : 2

    B. 1 : 3

    C. 1 : 6

16. In 2.5 hours, 0.64 inch of rain fell. At **about** what rate did the rain fall?

    A. 0.18 inch per hour

    B. 0.26 inch per hour

    C. 0.32 inch per hour

    D. 1.60 inches per hour

17. A tour bus traveled 912 miles in 16 hours. What was the average rate the bus traveled?

    A. 58 mph

    B. 57 mph

    C. 56 mph

    D. 55 mph

18. Ava takes guitar lessons. The lessons cost $90 each month. She has 4 lessons per month. How much does each of Ava's guitar lessons cost?

    A. $11.25

    B. $12.50

    C. $20.00

    D. $22.50

19. **For every mile that Terrence steps, he spends 11 minutes on a stair-climber. Which table correctly represents the relationship between miles and minutes?**

A.

Miles	Minutes
11	1
12	2
13	3
14	4
15	5
16	6

B.

Miles	Minutes
1	11
2	22
3	33
4	44
5	55
6	66

C.

Miles	Minutes
1	11
2	12
3	13
4	14
5	15
6	16

D.

Miles	Minutes
11	1
22	2
33	3
44	4
55	5
66	6

20. Using the table below, what is the value of y when x is 20?

| x	y
8	24
12	36
16	48
20	?

A. 58

B. 60

C. 84

21. **The table shows the number of hours Amanda worked in one week and how much she earned each day.**

Amanda's Work

Day of the Week	Number of Hours	Amount Earned
Monday	3	$36.00
Tuesday	6	$72.00
Wednesday	2	
Thursday	4	$48.00
Friday	8	$96.00

Based on the table, what is one way to find the amount that Amanda earned on Wednesday?

A. take $14.00 off of what she earned on Monday

B. divide Thursday's pay by 2

C. multiply 2×8

D. subtract $36.00 from $48.00

22. **Beth wants to cover a placemat with rows of stitches, as shown below. Beth completed the first 2 rows of stitches in $\frac{1}{2}$ hour.**
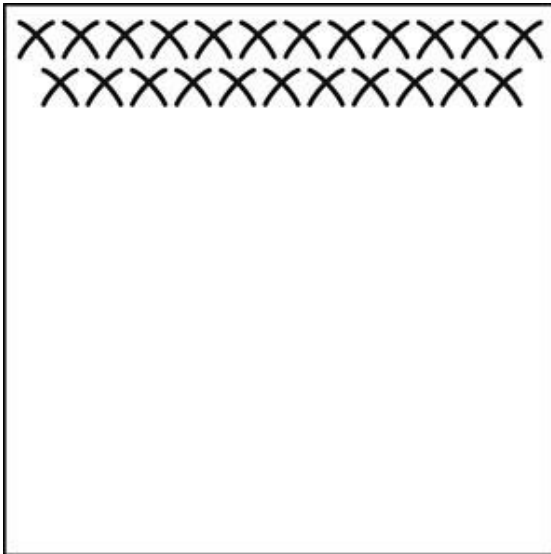
At this rate, which estimate is closest to the amount of time Beth will take to fill the placemat with the remaining rows of stitches?

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

B. 1 hour

C. $1\frac{1}{2}$ hours

D. 2 hours

23. **It takes Blanca 8 hours to travel a distance of 540 miles. At this rate, how many miles does Blanca travel in 12 hours?**

   A. 1080
   B. 810
   C. 360
   D. 270

24. **Matt walked 3 blocks every 2 minutes. Ross walked 6 blocks every 13 minutes. Which comparison of these walking rates is true?**

   A. Matt walked faster than Ross.
   B. Matt and Ross walked at an equal rate.
   C. Matt walked 3 blocks per minute slower than Ross.
   D. Matt walked 0.6 blocks per minute faster than Ross.

25. **A company held a taste test study with its new fruit snacks.**

   • In the study of 1,000 students, half the students tasted a plain fruit snack and half tasted a fruit snack with peanuts added.
   • In the group that tasted the plain fruit snack, 60% said that they would eat the fruit snack again.
   • In the group that tasted the snack with peanuts added, 22% said that they would eat the snack with peanuts again.

   How many students in the study said they would eat the type of snack they tasted again?

   A. 41
   B. 82
   C. 410
   D. 820

26. **Which phrase describes the least value?**

   A. 10% of 50
   B. 25% of 32
   C. 60% of 5
   D. 75% of 8

27. At a school, 20% of the sixth-grade students are in the band. There are 22 sixth-grade students in the band. How many sixth-grade students are in the school?

   A. 90
   B. 110
   C. 440

28. **The table below shows the top speed recorded for an ostrich on 4 days.**

Ostrich Speeds

Day	Speed
1	40 kilometers per hour
2	45 miles per hour
3	40 miles per hour
4	50 kilometers per hour

On which day did the ostrich run fastest?

A. Day 1

B. Day 2

C. Day 3

D. Day 4

29. **Liesa wants to put grass seed on her rectangular-shaped backyard. She measured her backyard as 80 feet long by 54 feet wide. How many square yards of grass seed will Liesa put down?**

A. 360

B. 480

C. 1440

D. 4320

30. **A camel drank 110 liters of water. What number of milliliters is equivalent to 110 liters?**

A. 0.11 milliliter

B. 1.1 milliliters

C. 11 000 milliliters

D. 110 000 milliliters