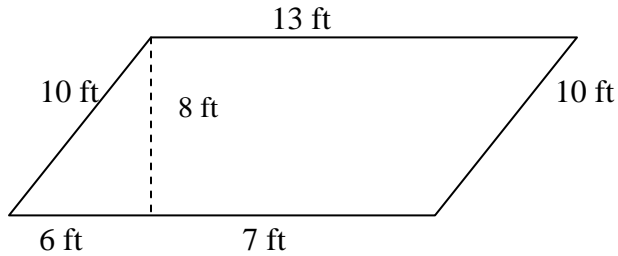
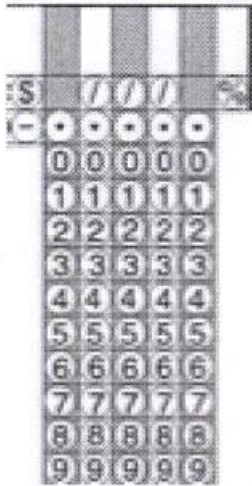


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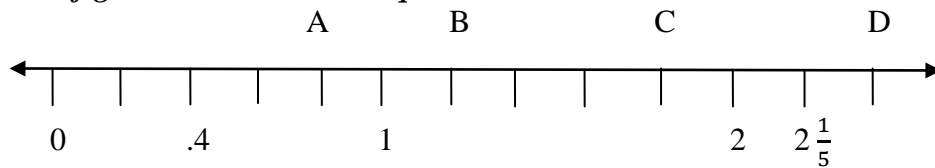
Use the figure to answer question 1.



1. What is the area of the parallelogram (in squared feet)?
Put your answer in the grid below.



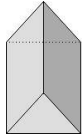
Use the figures below to answer question 2.



2. Locate 1.2 on the number line above.
- A. A
 - B. B
 - C. C
 - D. D

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Use the figure below to answer question 3.



Triangular Prism

3. Which answer identifies the number of faces, vertices and edges of a triangular prism?

Answer	Number of faces	Number of vertices	Number of edges
A	4	4	9
B	5	6	9
C	6	8	12
D	5	4	7

4. Each month 8 magazines arrive at the Michael's home. Write an equation that would show the number of months (n) it took for Michael to receive 56 magazines.

- A. $8n = 56$
- B. $56n = 8$
- C. $56 - n = 8$
- D. $n + 8 = 56$

5. If Dora reads 42 pages each evening, how many pages will she read in February 2012 (29 days)?

(no calculator)

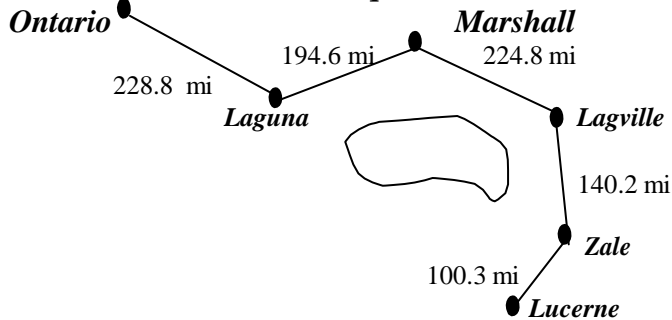
- A. 71 pages
- B. 1,218 pages
- C. 1,260 pages
- D. 2,083 pages

6. What is seventy-six and fifteen ten-thousandths written in numerals?

- A. 76.0015
- B. 76.1500
- C. 7,615
- D. 760,015

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Use the map below to answer question 7.



7. Colleen's and Jerome's families were driving to their family reunion in *Marshall*. Colleen's family traveled from *Ontario* to *Marshall* and Jerome's family traveled from *Lucerne* to *Marshall*. How many more miles did one family drive than the other?

(no calculator)

- A. 888.7 mi
- B. 465.3 mi
- C. 423.4 mi
- D. 41.9 mi

Use the inequality to answer question 8.

$$\frac{32}{n} > 2$$

8. What value of n makes the sentence true?

- A. $n = 32$
- B. $n = 16$
- C. $n = 8$
- D. $n = 64$

9. The tables for the parent lunch will seat eight people. If 300 people plan to attend, how many tables will be needed?

(no calculator)

- A. 37 tables
- B. 37.5 tables
- C. 38 tables
- D. 38.5 tables

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Use the table below to complete question 10.

State	Number of Bald Eagles
Kentucky	68
Maryland	134
Arkansas	382
Tennessee	303

10. Estimate (to the nearest hundred) how many fewer bald eagles were seen in Kentucky than in Arkansas.

(no calculator)

- A. 200
- B. 300
- C. 314
- D. 400

11. The books arrived in a box that is a rectangular prism. The area of its base is 12 cm^2 and the height is 7 cm. What is the volume of the box?

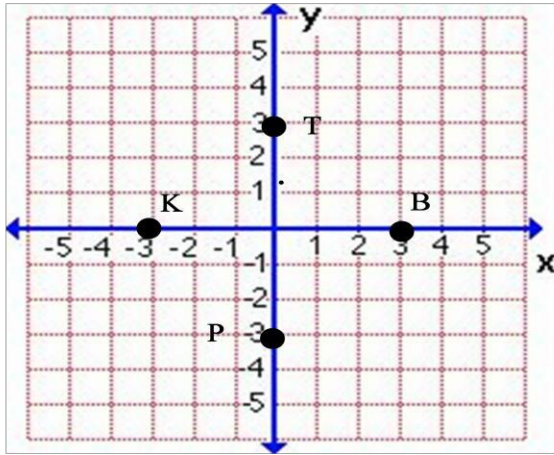
- A. 19 cm^3
- B. 49 cm^3
- C. 84 cm^3
- D. 168 cm^3

12. What is 5,318.0716 rounded to the nearest thousandths?

- A. 5,318.071
- B. 5,318.072
- C. 5,318.08
- D. 6,318.0716

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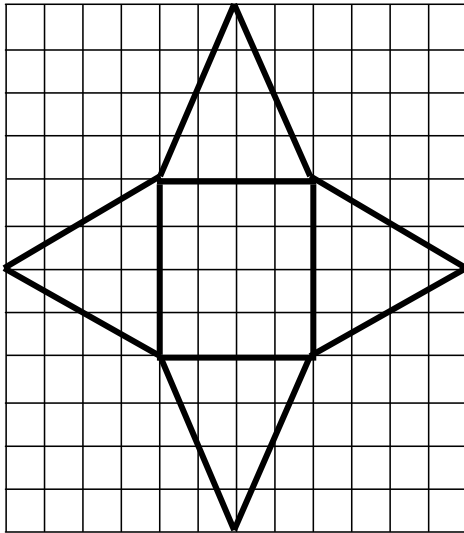
Use the coordinate grid below to answer question 13.



13. In the grid above, which point represents $(-3, 0)$?
- A. Point T
 - B. Point B
 - C. Point K
 - D. Point P
14. What is the value of $(m - 3) + 2(4k + 7)$ when $m = 6$ and $k = 5$?
- A. 18
 - B. 25
 - C. 50
 - D. 57
15. Ricardo's father bought 12 gallons of gasoline for \$41.88. He paid with two \$20 bills and one \$10 bill? How much change will he receive?
(no calculator)
- A. \$41.88
 - B. \$21.88
 - C. \$21.12
 - D. \$8.12

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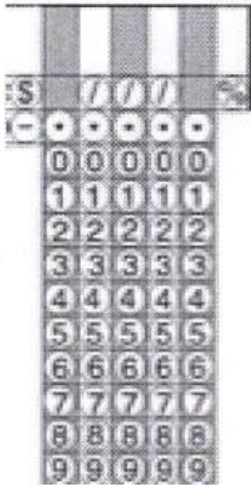
Use the diagram below to answer question 16.



Each square is 1 square inch.

16. Find the surface area.

Put your answer in the grid below.

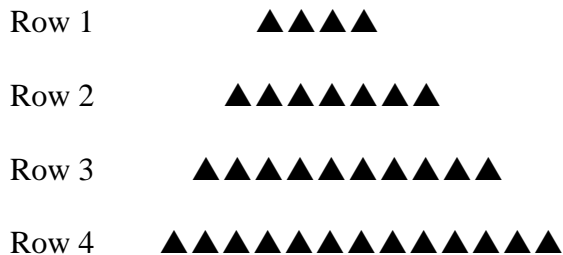


17. Sean and Devin read a total of 450 pages during March. If Devin read 36 more pages than Sean, which answer below shows the number of pages (p) Devin read?

- A. $2 \times p - 36 = 450$
- B. $p - 36 = 450$
- C. $p + 36 = 450$
- D. $2 \times p + 36 = 450$

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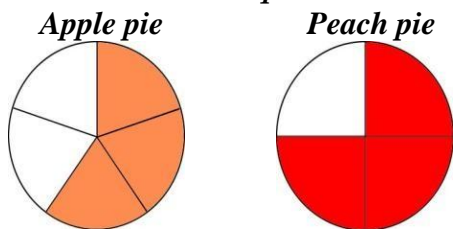
Use the pattern below to answer question 18.



18. Tony’s family owns a tree farm. They planted Northern Pine trees in the pattern above. There is enough room to plant four more rows of trees. How many trees will be planted in row 8?

- A. 4
- B. 25
- C. 32
- D. 68

Use the figures below to answer question 19.



19. Eva’s mom made 2 pies for the family. If they ate pie, $\frac{3}{5}$ of the apple pie and $\frac{3}{4}$ of the peach how much more peach pie was eaten than apple pie?

- A. $\frac{6}{9}$
- B. $\frac{9}{20}$
- C. $\frac{3}{20}$
- D. $\frac{12}{15}$

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20. Ms. Johnson bought 28 packages of stickers, with each package containing 150 stickers. She has 35 students in her class. If she gives every student the same number of stickers, how many will each student receive?

(no calculator)

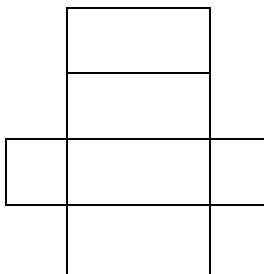
- A. 120 stickers
- B. 122 stickers
- C. 143 stickers
- D. 213 stickers

21. According to the Minnesota Twins, Tsuyoshi Nishioka's 2011 season batting average was 0.226. If his 2012 batting average increases by 0.10, what would be his 2012 batting average?

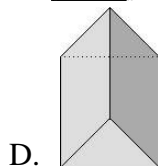
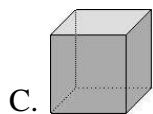
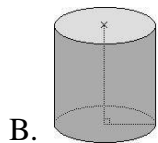
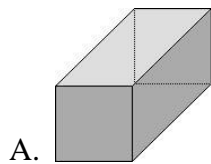
- A. 0.227
- B. 0.236
- C. 0.326
- D. 1.226

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Use the figure below to answer question 22.



22. Which three-dimensional figure can be created from the net shown above?



23. Find the quotient of $9,848 \div 32$.

A. $37 \text{ r } 24$

B. $37 \frac{3}{4}$

C. $307 \frac{3}{4}$

D. 307.24

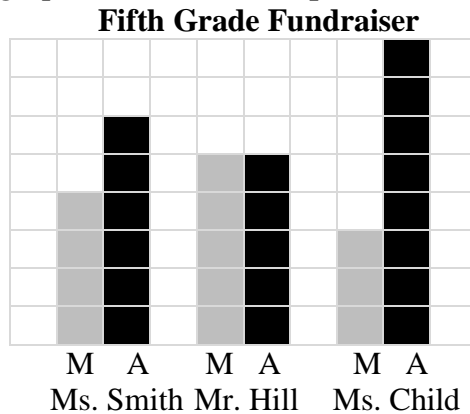
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24. Jackie was growing sunflowers for her science fair project. After 8 weeks, she measured the height of the sunflowers in inches and recorded the heights. What is the mean and median of the heights?

47 31 65 77 53 49 49

- A. Mean is 31 and median is 49
- B. Mean is 49 and median is 53
- C. Mean is 49 and median is 77
- D. Mean is 53 and the median is 49

Use the double bar graph below to answer question 25.



25. The fifth grade fundraiser data is recorded on the table above. Use the table to decide which class collected the most money during March (M) and April (A).

- A. Ms. Smith's class
- B. Mr. Hill's class
- C. Ms. Child's class
- D. All three classes raised the same amount of money

FIFTH GRADE MATHEMATICS

Use the table below to answer question 26.

Central Middle School Band Instruments

Instruments	Fraction
Woodwind	$\frac{3}{5}$ —
Brass	$\frac{3}{10}$ —
Percussion	$\frac{1}{10}$

26. The instruments of the new Central Middle School band are listed on the table above. What decimal would represent the fraction of woodwind instruments?

- A. 0.1
- B. 0.3
- C. 0.6
- D. 0.5

Use the pattern below to answer question 27.

23 24 26 29 33 38 ?

27. Complete the pattern.

- A. 40
- B. 43
- C. 44
- D. 48

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ANSWERS

1. **Gridded Response 5.3.2.1** (develop and use formulas to find area) Answer: 104 ft^2
2. **B 5.1.2.3** Number & Operation (order fractions and decimals and locate on a number line)
3. **B 5.3.1.1** Geometry & Measurement (describe and classify three-dimensional figures by the number of faces, edges and vertices)
4. **A 5.2.3.2** Algebra (real-world situations using equations involving variables)
5. **B 5.1.1.4** Number & Operation (real-world multiplication)
6. **A 5.1.2.1** Number & Operation (write decimals)
7. **D 5.1.3.1** Number & Operation (addition and subtraction of decimals) Find the sum of the distances traveled by each family, then find the difference between the two
8. **C 5.2.3.1** Algebra (determine whether an inequality is true for a given value of a variable)
9. **C 5.1.1.2** Number & Operation (interpret the quotient appropriately)
10. **B 5.1.1.3/5.1.1.4** Number & Operation (estimate solutions to solve real-world problems)
Round 68 to 100 and round 303 to 300; subtract 100 from 300
11. **C 5.3.2.4** Geometry & Measurement (use the formula to find the volume of a rectangular prism)
12. **B 5.1.2.5** Number & Operation (round numbers to the nearest tenth)
13. **C 5.2.1.2** Algebra (graph ordered pairs on a coordinate system)
14. **D 5.2.3.3** Geometry & Measurement (evaluate expressions involving variables when values are given)
15. **D 5.1.3.3/5.1.3.4** Number & Operation (real-world addition and subtraction of decimals)
16. **Gridded response 5.3.2.2/5.3.2.3** Geometry & Measurement (use a net to compute the surface area) 48 squared inches

FIFTH GRADE MATHEMATICS

17. **A 5.2.2.1** Algebra (generate equivalent numerical expressions situations) When the number sentence is solved, the variable, p , indicates the number of pages Eduardo read (NOTE: the number of pages Eduardo read can be represented as $p + 36$ and Martha's pages would then be represented as simply p . On the other hand, since we want the number of pages Eduardo read to be the single variable, p , then Martha read 36 fewer pages, hence $p - 36$.)
18. **B 5.2.1.1** Algebra (describe patterns of change)
19. **C 5.1.3.2** Number & Operation (model of subtraction of fractions)
20. **A 5.1.1.4** Number & Operation (real-world multiplication and division)
21. **C 5.1.2.2** Number & Operation (find 0.1 more or less than a number)
22. **A 5.3.1.2** Geometry & Measurement (recognize and draw a net of a 3-dimensional figure)
23. **C 5.1.1.1** Number & Operation (divide multi-digit numbers with remainder)
24. **D 5.4.1.1** Data Analysis (determine the mean and median)
25. **C 5.4.1.2** Data Analysis (analyze double bar graph)
26. **C 5.1.2.4** Number & Operation (equivalent decimals and fractions)
27. **C 5.2.1.1** Algebra (describe patterns of change)