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# ★ Anatomy of a Fifth Grade Countdown! ★

Countdown to the Math TAKS™ closely matches a real TAKS test. Every teacher knows that a full-length test is the most authentic, informative way for students to practice for the TAKS!



Most of the released tests on the TEA website are now obsolete! Remain fully relevant with Countdown!

**Hot Tip!**

Check each page with the students, individually or as a class. Do this every time to insure that every student understands the concepts. It only takes a few minutes, but it is powerful!

**TAKS Objective**

Need additional practice on a particular objective? Check out *Fast Focus* and *Numeracy Power-Up!*

**10 Complete Tests**  
Work 1 page a day as a math warm-up during the 10 weeks preceding the TAKS! Eliminate problem areas with *Fast Focus* and *Numeracy Power-Up!*

**Hot Tip!**

Incentivize! Give out a small sticker (or similar reward) to each student that misses zero, one, or two problems per page. It works wonders!

**Condensed Graphics**

Condensed graphics reduce the number of pages required to photocopy without sacrificing any information.

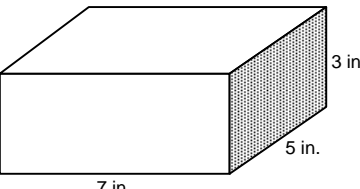
**Test 5** Countdown to the Math TAKS™ Grade 5 **Page 3**

**2** Abigail has 4 boxes of pencils. Three of the boxes contain 12 pencils each and one box contains 11 pencils. Which number sentence can be used to find the total number of pencils?

(A)  $(12 \times 4) + 11 = \square$  (B)  $(12 + 3) \times 11 = \square$   
 (C)  $(12 \times 3) + 11 = \square$  (D)  $(12 \div 3) + 11 = \square$

**5.6A**

**3** Look at the model of a box.

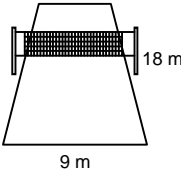


What is the volume of the box?

(A) 57 cubic inches (B) 71 cubic inches  
 (C) 84 cubic inches (D) 105 cubic inches

**5.10C**

**4** A volleyball court is 9 meters wide and 18 meters long.

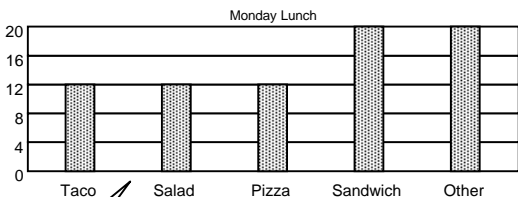


Record your answer and fill in the bubbles. Be sure to use correct place value.

Ⓐ	Ⓑ	Ⓒ	.
①	①	①	
②	②	②	
③	③	③	
④	④	④	
⑤	⑤	⑤	
⑥	⑥	⑥	
⑦	⑦	⑦	
⑧	⑧	⑧	
⑨	⑨	⑨	

**5.10C**

**5** The graph shows what the fifth graders at Grant Elementary ate for lunch on Monday.



Which shows one way to find the total number of fifth graders that ate lunch?

(A) Add 12 and 20, and then multiply the sum by 5  
 (B) Subtract 12 from 20, and then multiply the difference by 5  
 (C) Multiply 12 by 3, multiply 20 by 2, and then add the products  
 (D) Divide 12 by 3, divide 20 by 2, and then add the quotients

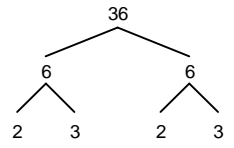
**5.15B**

**6** Ms. Yuán arrived at the shopping mall at 2:30 P.M. She shopped for shoes for 45 minutes and then rested on a bench for 10 minutes. After resting she shopped for clothes for 1 hour 12 minutes. She took 20 minutes to eat a meal in the food court and then she left the mall. Which is the best estimate of the time she left the shopping mall?

(A) 4:00 P.M. (B) 5:00 P.M.  
 (C) 6:30 P.M. (D) 7:00 P.M.

**5.14B**

**7** A factor tree for 36 is shown below.



Which statement about the factor tree is NOT true?

(A) 3 is the only prime factor of 36  
 (B) 36 is a composite number  
 (C) 2 and 3 are prime factors of 36  
 (D) 6 is a composite number

**5.5B**

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Check out *Numeracy Power-Ups* and *Fast Focus!* They work in conjunction with *Countdown* for maximum impact!

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1 Which number goes in the box to make the equation true?

$$\frac{3}{8} = \frac{\square}{24}$$

- (A) 8      (B) 9      (C) 12      (D) 16

5.2A

4 Jason made a pattern with numbers.

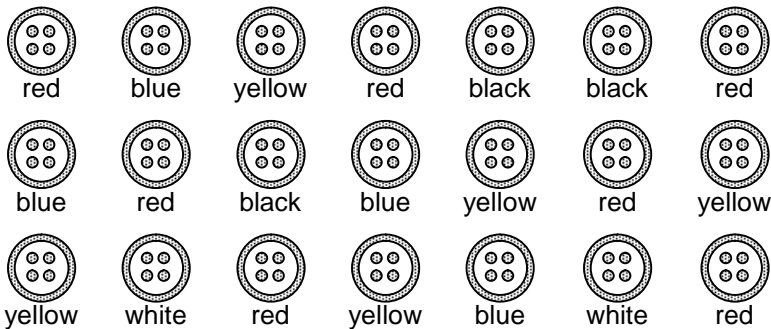
19, 22, 28, 31, 37, 40, ...

If he extends the pattern, which of the following numbers will he write?

- (A) 43      (B) 50      (C) 64      (D) 75

5.16A

6 Latonya's mother gave her some buttons.

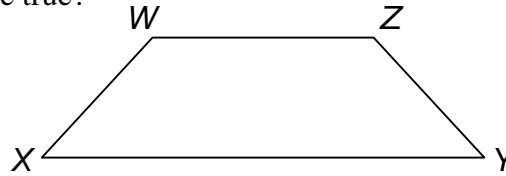


If she picks up 1 button at random, what is the probability that the button will be red?

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

5.12A

2 Which statement about the trapezoid appears to be true?



- (A)  $\angle X$  is congruent to  $\angle W$   
 (B)  $\overline{WZ}$  is congruent to  $\overline{XY}$   
 (C)  $\angle Y$  is congruent to  $\angle X$   
 (D)  $\overline{WZ}$  is congruent to  $\overline{YZ}$

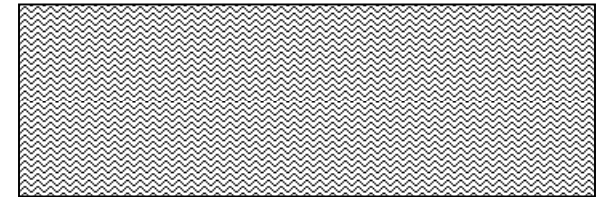
5.7A

5 The cafeteria has 16 tables. Each table can seat 14 students. What is the greatest number of students that can be seated at one time?

- (A) 30      (B) 80  
 (C) 204      (D) 224

5.3B

3 The rectangle represents the rug on Mrs. Ortega's floor. Use a ruler to measure the length and width of the rug to the nearest inch.



Key

$$1 \text{ inch} = 3 \text{ feet}$$

What is the perimeter of the rug in feet?

- (A) 24 feet      (B) 16 feet  
 (C) 12 feet      (D) 8 feet

5.10C

7 The students in fifth grade voted for their favorite flavor of ice cream. *Chocolate* received 3 times as many votes as *vanilla*. *Strawberry* received half as many votes as *chocolate*. Which table represents this information?

(A)

Favorite Flavor	Number of Votes
Chocolate	60
Vanilla	20
Strawberry	30

(B)

Favorite Flavor	Number of Votes
Chocolate	30
Vanilla	20
Strawberry	60

(C)

Favorite Flavor	Number of Votes
Chocolate	20
Vanilla	60
Strawberry	30

(D)

Favorite Flavor	Number of Votes
Chocolate	60
Vanilla	30
Strawberry	20

5.14B



1 Ms. Taylor sells roses for \$2.00 each or \$12.00 per dozen. What is the greatest number of roses a customer can buy with \$30.00?

- (A) 14      (B) 24      (C) 27      (D) 30

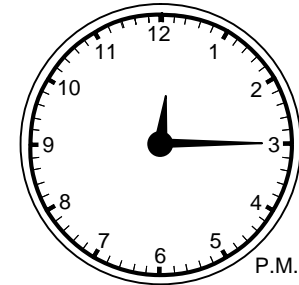
5.14C

2 Which shows the prime factorization of 120?

- (A)  $10 \times 12$       (B)  $4 \times 5 \times 6$   
 (C)  $2 \times 3 \times 4 \times 5$       (D)  $2 \times 2 \times 2 \times 3 \times 5$

5.5B

5 Mrs. Santos will leave her house at the time shown on the clock. She will return 2 hours 40 minutes later.



At what time will Mrs. Santos return to her house?

- (A) 2:15 P.M.      (B) 2:45 P.M.  
 (C) 2:55 P.M.      (D) 3:15 P.M.

5.11B

3 William has \$912. He wants to buy a television that costs \$1,689. Which is the best estimate of how much more money William needs to buy the television?

- (A) \$600      (B) \$800  
 (C) \$1200      (D) \$2600

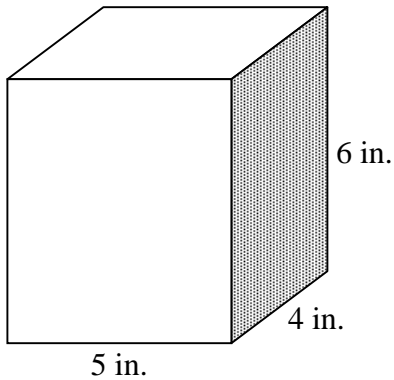
5.4A

4 Almost forty years ago, the population of the United States was 151,325,798. What does the 2 in this number represent?

- (A) Two thousand  
 (B) Twenty thousand  
 (C) Twenty-five thousand  
 (D) Two hundred thousand

5.1A

6 Look at the box.

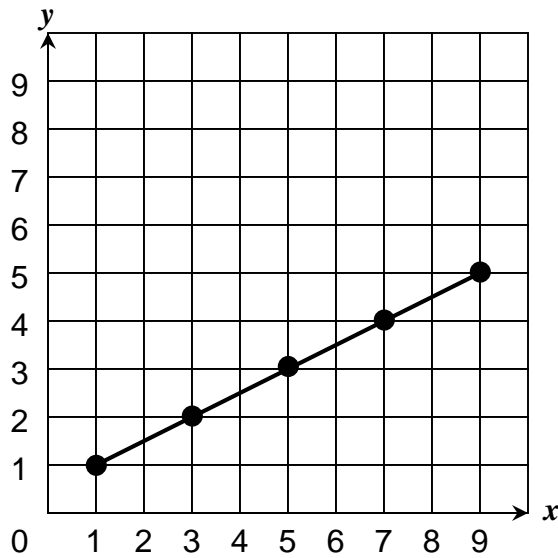


What is the volume of the box?

- (A) 125 cubic inches  
 (B) 120 cubic inches  
 (C) 74 cubic inches  
 (D) 64 cubic inches

5.10C

7 The graph shows 5 points marked on a line segment. Which table shows the coordinates of the 5 points?



- (A) 

x	1	2	3	4	5
y	1	3	5	7	9
- (B) 

x	1	3	5	7	9
y	1	3	5	7	9
- (C) 

x	1	3	5	7	9
y	1	2	3	4	5
- (D) 

x	1	2	3	4	5
y	1	2	3	4	5

5.13A

8 Which single transformation is represented from Figure A to Figure B?

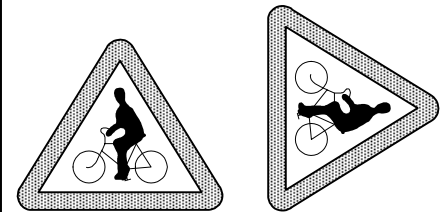


Figure A

Figure B

- (A) Translation  
 (B) Reflection  
 (C) Rotation  
 (D) Not Here

5.8B



1 Lamont has 5 bags of marbles. Two of the bags each contain 12 marbles. Three of the bags each contain 15 marbles. Which could be used to find the total number of marbles in the 5 bags?

- (A)  $(2 \times 12) + (3 \times 15) = \square$
- (B)  $(12 + 15) \times 5 = \square$
- (C)  $5 + 2 + 3 + 15 = \square$
- (D)  $(12 + 15) \times (12 + 15) = \square$

5.6A

2 Which shows all the numbers that are common factors of 24 and 36?

- (A) 1, 2, 3, 4, 6
- (B) 1, 2, 3, 4, 6, 12
- (C) 1, 2, 3, 4, 6, 18
- (D) 1, 2, 3, 4, 6, 12, 24

5.3D

3 The sign shows the prices of different drinks at a food cart.

Drink Prices (bottles)	
Juice (8 oz).....	\$1.45
Juice (12 oz).....	\$2.07
Soda (10 oz).....	\$1.15
Soda (16 oz).....	\$1.63
Tea (10 oz).....	\$0.99
Tea (16 oz).....	\$1.60

All prices include tax!

Mrs. Hall will buy an 8-ounce bottle of juice for each of her 3 daughters. She will buy a 16-ounce bottle of tea for herself. If she pays with a \$10 bill, how much change should she receive?

- (A) \$5.95
- (B) \$4.95
- (C) \$4.35
- (D) \$4.05

5.3A

4 The table shows the prices of tickets at a theater.

Ticket Prices	
Adult	\$8
Child	\$6

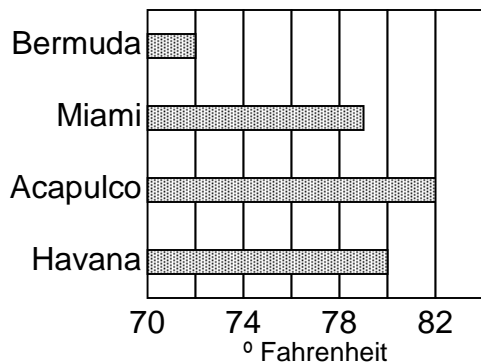
Based on the information in the table, which statement is true?

- (A) 4 *Child* tickets cost the same as 4 *Adult* tickets
- (B) 4 *Child* tickets cost the same as 3 *Adult* tickets
- (C) 3 *Child* tickets cost the same as 4 *Adult* tickets
- (D) 3 *Child* tickets cost the same as 5 *Adult* tickets

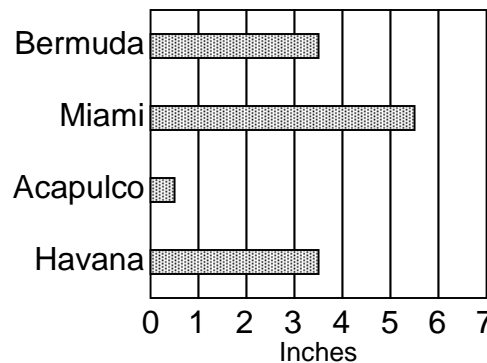
5.14C

5 Mr. Jones wants to take a vacation in May. He will use the information in the bar graphs to help him choose among 4 locations.

Average Temperature



Average Rainfall

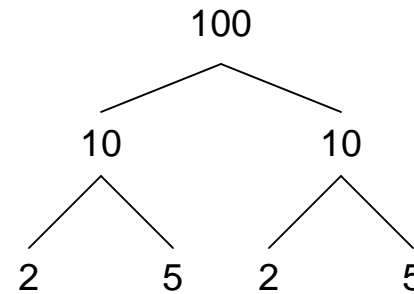


Mr. Jones wants to travel to a location with an average temperature greater than 78° and an average rainfall of less than 3 inches. To which location should Mr. Jones travel?

- (A) Bermuda
- (B) Miami
- (C) Acapulco
- (D) Havana

5.16A

6 A factor tree for the number 100 is shown below.

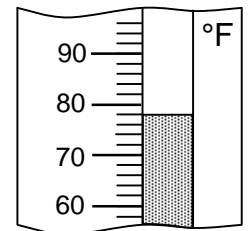


Which statement is true?

- (A) 100 and 10 are prime numbers
- (B) 2 and 5 are composite numbers
- (C) 2, 5, and 10 are prime numbers
- (D) 2 and 5 are prime numbers

5.5B

7 The thermometer shows the temperature outside.



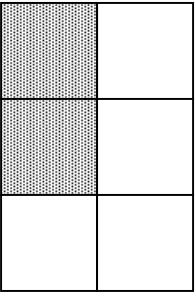
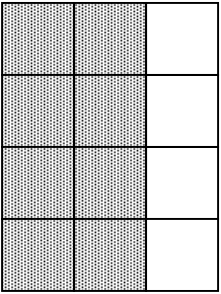
If the temperature decreases 9°, what will be the temperature?

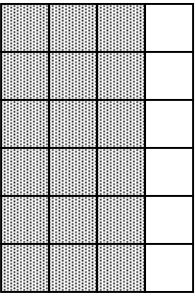
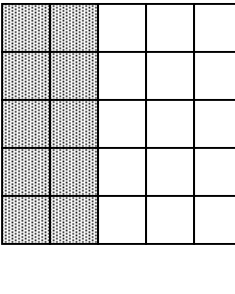
- (A) 60°
- (B) 65°
- (C) 69°
- (D) 71°

5.11A



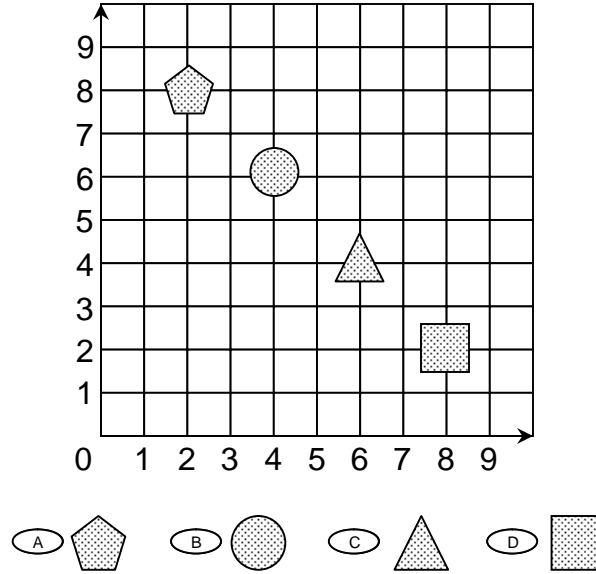
1 Which model is equivalent to  $\frac{2}{3}$ ?

(A)  (B) 

(C)  (D) 

5.2A

2 Which shape is located at the ordered pair (6, 4)?



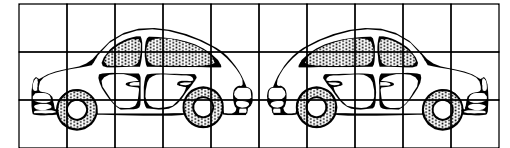
5.9A

3 Janelle has to read a book that is 56 pages long. She will read the same number of pages each day for 7 days. Which number sentence can be used to find the number of pages,  $p$ , that she will read each day?

- (A)  $56 \times 7 = p$       (B)  $56 + 7 = p$   
 (C)  $56 - 7 = p$       (D)  $56 \div 7 = p$

5.6A

4 Which single transformation is represented by the figures?



- (A) Reflection      (B) Translation  
 (C) Rotation      (D) Not here

5.8B

5 The table shows how many pounds of wheat there are in 4, 7, and 9 bags.

Number of Bags	4	7	9
Number of Pounds	36	63	81

What is the relationship between bags and pounds?

- (A) Pounds = Bags + 32  
 (B) Pounds = Bags - 56  
 (C) Pounds = Bags  $\times$  9  
 (D) Pounds = Bags  $\div$  7

5.5A

6 Mr. Ruiz volunteered 28 hours each year for 9 years. Which equation can be used to find  $h$ , the total number of hours he volunteered?

- (A)  $h = 28 \div 9$       (B)  $h = 28 \times 9$   
 (C)  $h = 28 - 9$       (D)  $h = 28 + 9$

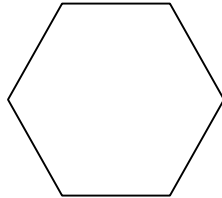
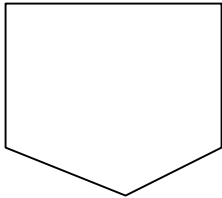
5.6A

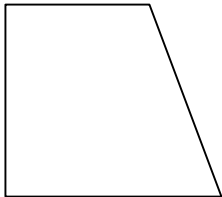
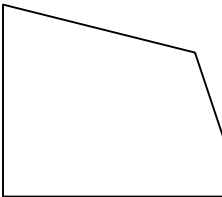
7 Which list of numbers is in order from least to greatest?

- (A) 0.3 / 3.0 / 3.1 / 0.33  
 (B) 2.0 / 2.1 / 0.2 / 2.2  
 (C) 0.4 / 4.0 / 4.4 / 4.44  
 (D) 1.1 / 1.0 / 0.1 / 0.11

5.1B

8 Which figure appears to have more than 3 obtuse angles?

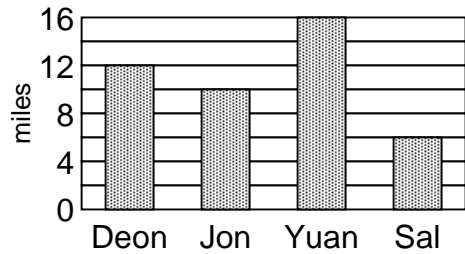
(A)  (B) 

(C)  (D) 

5.7A



1 Four students have been jogging for 2 hours. The distances they have jogged are shown on the graph.



Based on this information, which is the best prediction of how many miles Yuan will jog in 4 hours?

- (A) 16 (B) 24 (C) 26 (D) 32

5.12B

2 The table shows the results of an election.

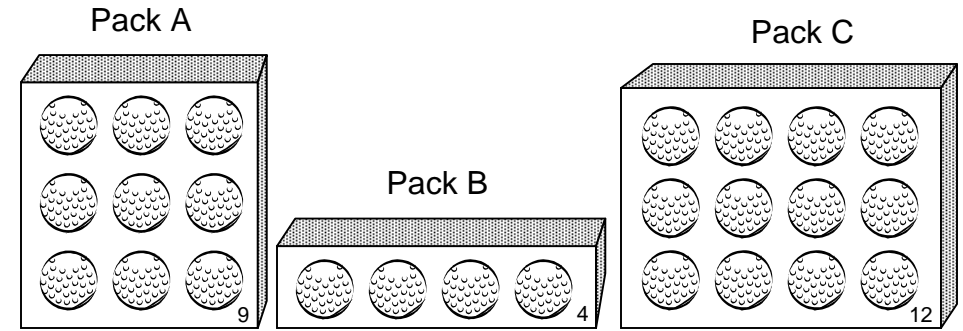
Student	Number of Votes
Ansari	108
Fidel	89
Denisa	175
Mikhail	92
Alex	130

Which student received the median number of votes?

- (A) Ansari (B) Fidel  
(C) Alex (D) Mikhail

5.13B

3 Golf balls are sold in three types of packages.

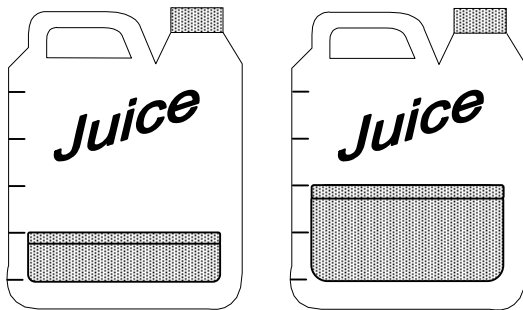


Which combination of packs equals 88 golf balls?

- (A) 3 packs of A, 3 packs of B, 3 packs of C  
(B) 2 packs of A, 3 packs of B, 4 packs of C  
(C) 4 packs of A, 1 pack of B, 4 packs of C  
(D) 5 packs of A, 4 packs of B, 3 packs of C

5.14C

4 Mrs. Thompson has two containers of orange juice. One of the containers has  $\frac{1}{4}$  gallon of juice and the other container has  $\frac{2}{4}$  gallon of juice.



How much orange juice do the containers have together?

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

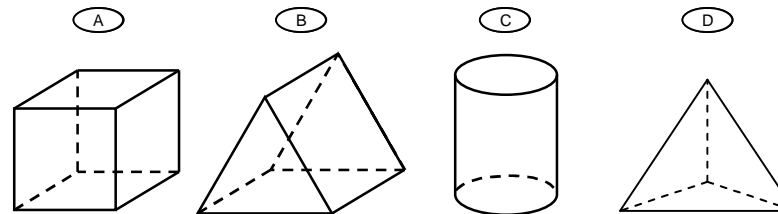
5.3E

5 Nathan can purchase 6 lemons for \$2. Which is one way to find the number of lemons Nathan can buy with \$20?

- (A) Add 6 and 2 and then multiply the sum by 20  
(B) Add 2 and 20 and then multiply the sum by 6  
(C) Divide 6 by 2 and then add the quotient to 20  
(D) Divide 20 by 2 and then multiply the quotient by 6

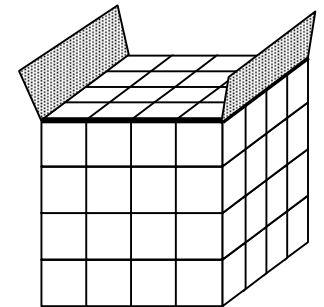
5.15B

6 Which solid has exactly 5 faces?



5.7A

7 The box is full of 1-centimeter cubes.



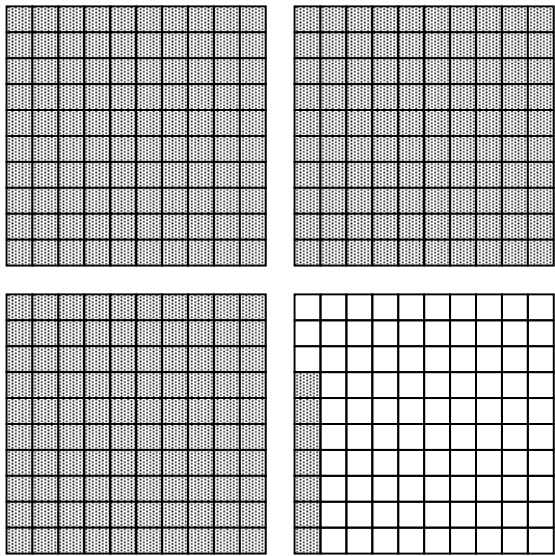
Which equation can be used to find the volume of the box?

- (A)  $V = 4 + 4 + 4$   
(B)  $V = 4 \times 4 \times 4$   
(C)  $V = 4 + 16$   
(D)  $V = (2 \times 4) + (2 \times 4)$

5.10B



1 The model shows  $3\frac{7}{100}$  shaded.



Which decimal represents the shaded part of the model?

- (A) 3.70
- (B) 0.37
- (C) 3.07
- (D) 37.0

5.2D

2 Ignacio wants to save \$360 to buy a video game system. If he saves \$15 each month, how many months will it take him to save enough money to buy the system?

Record your answer and fill in the bubbles. Be sure to use correct place value.

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

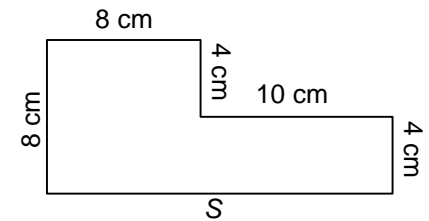
5.3C

3 Which lists all the factors of a prime number?

- (A) 1, 2, 4, 8
- (B) 1, 13
- (C) 1, 3, 7, 21
- (D) 1, 3, 5, 15

5.5B

4 Look at the figure below.

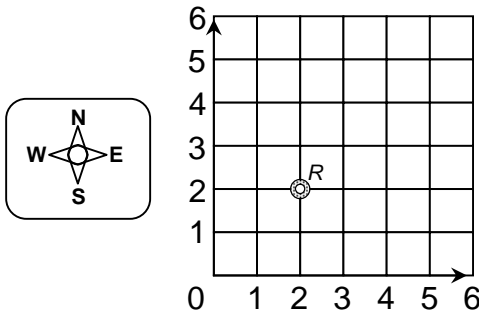


What is the length of side S?

- (A) 18 cm
- (B) 22 cm
- (C) 34 cm
- (D) 52 cm

5.10C

5 The grid below represents a game board.



A red chip is at point R on the board. If the red chip is moved 4 units north, what will its coordinates be?

- (A) (2, 2)
- (B) (2, 4)
- (C) (2, 6)
- (D) (6, 2)

5.9A

6 The bucket holds 4 quarts of liquid.



How many ounces of liquid does it hold?

- (A) 128 oz
- (B) 64 oz
- (C) 32 oz
- (D) 16 oz

5.10A

7 Adam had \$300 when he entered the store. He spent \$72 on some CD's. He wants to use the rest of the money to buy some DVD's. If DVD's cost \$18 each, which would be the best way for Adam to find how many DVD's he can afford to buy?

- (A) Multiply 18 by 72
- (B) Add 300 to 72 then subtract 18
- (C) Subtract 72 from 300 then divide by 18
- (D) Add 72 to 300 then divide by 18

5.14A

