

Imagine printing a complete TAKS test on just 4 pages! Countdown makes it possible!

★ Anatomy of a Sixth 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 and prepare for the TAKS!



10 Complete Tests
Work 1 or 2 pages a day as a warm-up during the weeks preceding the TAKS! Work a complete test occasionally to build mathematical stamina!

Hot Tip!

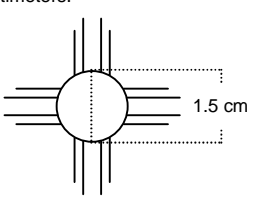
Incentivize! Give out a small sticker (or similar reward) to each student that misses zero, one, or two problems per page. It works wonders!

Condensed Graphics

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

Test 1
Countdown to the Math TAKS™ Grade 6
Page 3

1 Courtney drew a Zia symbol. The circle in the center of the symbol has a diameter of 1.5 centimeters.



Which expression can be used to find the approximate circumference of the circle in the center of the Zia?

Ⓐ $2(\pi)(1.5)$ Ⓒ $2(1.5)$
 Ⓑ $\pi(\pi)(1.5)$ Ⓓ $\pi(1.5)$

6.6C

2 Which expression below shows the prime factorization of 504?

Ⓐ $2^2 \cdot 3^3 \cdot 5$ Ⓒ $2^3 \cdot 3 \cdot 5 \cdot 7$
 Ⓑ $2^3 \cdot 3^2 \cdot 7$ Ⓓ $2^3 \cdot 3^3 \cdot 7^3$

6.1D

3 Alberto created a set of numbers.

Alberto's Set: 8, 16, 48, 92

Which statement about the numbers is true?

Ⓐ They are divisible by 8
 Ⓑ They are all factors of 92
 Ⓒ They are all multiples of 4
 Ⓓ They are all odd numbers

6.13A

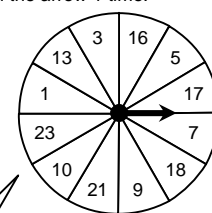
4 Amber's teacher assigned her a novel to read. If Amber reads 34 pages of the novel each day for the next 12 days, she will finish. How many pages long is the novel?

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

				.		
Ⓐ	Ⓐ	Ⓐ	Ⓐ	Ⓐ	Ⓐ	Ⓐ
Ⓑ	Ⓑ	Ⓑ	Ⓑ	Ⓑ	Ⓑ	Ⓑ
Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ	Ⓒ
Ⓓ	Ⓓ	Ⓓ	Ⓓ	Ⓓ	Ⓓ	Ⓓ

6.2C

5 Pedro made the game spinner below. He will spin the arrow 1 time.



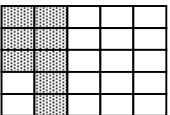
What is the probability that the arrow will point to an odd number?

Ⓐ $\frac{1}{4}$ Ⓑ $\frac{9}{12}$ Ⓒ $\frac{1}{3}$ Ⓓ $\frac{3}{10}$

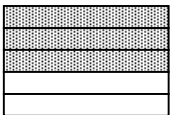
6.9B

6 Mrs. Harris and her daughter ate 35% of the brownies in a pan. Which model is shaded to represent 35%?

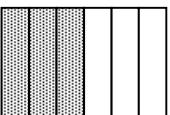
Ⓐ



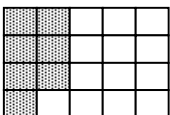
Ⓒ



Ⓑ



Ⓓ



6.3B

7 Peter is going to make a long row of 25 different sports cards. The first card will be a baseball card, the second will be a football card, the third will be a hockey card, and the fourth will be a basketball card. He will repeat this pattern until he completes the 25-card row. What is the total number of baseball cards that will be in the row?

Ⓐ 4 baseball cards
 Ⓑ 7 baseball cards
 Ⓒ 6 baseball cards
 Ⓓ 8 baseball cards

6.2C

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If your students complete the entire series, they will have solved 460 TAKS problems. And it just takes 10 to 15 minutes a day!

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

Using this number and the included TEKS-At-A-Glance page, you'll know instantly what problem areas to address.

Our products are now used in **over 400 districts in Texas**. Why? Because *Countdown to the Math TAKS* is the most **straight-forward, commonsense, and affordable** way to prepare 6th graders for the math TAKS. No expensive subscriptions, no complicated implementation schemes, no nonsense!

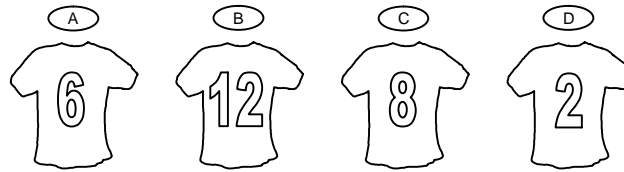


1 While Lance is cycling uphill, he drinks 6 ounces of water every 12 minutes. How many ounces of water will he drink after cycling uphill for 2 hours?

- (A) 10 ounces
- (B) 60 ounces
- (C) 45 ounces
- (D) 120 ounces

6.11C

2 Which t-shirt below has the greatest common factor of 12, 18, and 30 printed on it?



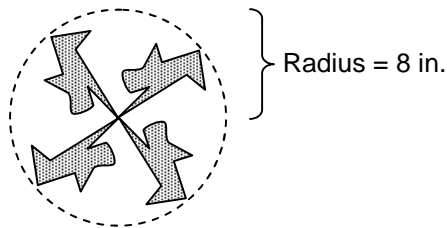
6.1E

3 Mr. Huáng is 29 years old. He wants to find his age in weeks. Which is the best estimate of Mr. Huáng's age in weeks?

- (A) 1,900
- (B) 1,500
- (C) 2,000
- (D) 1,200

6.2D

4 Look at Megan's plan for a design.



Which method can she use to find the diameter of the circle formed by the design?

- (A) Multiply π by 8
- (B) Multiply π by 4
- (C) Divide 8 by 2
- (D) Multiply 8 by 2

6.6C

5 Which equation best represents the relationship between x and y in the table shown below?

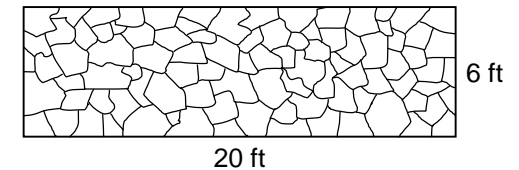
Input-Output Table

x	1	3	5	7
y	1	5	9	13

- (A) $y = 2x - 1$
- (B) $y = 2x$
- (C) $y = x + 1$
- (D) $y = 2x + 1$

6.4A

6 The model represents Ms. Soto's stone patio in her backyard.

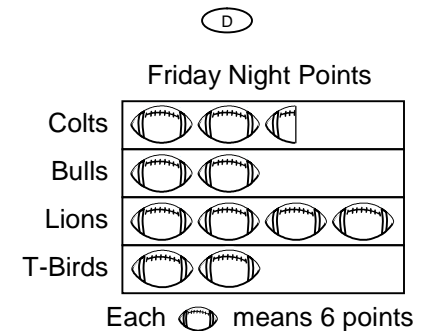
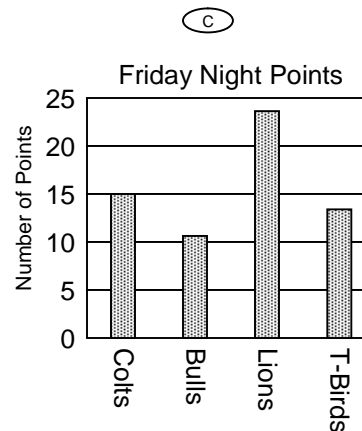
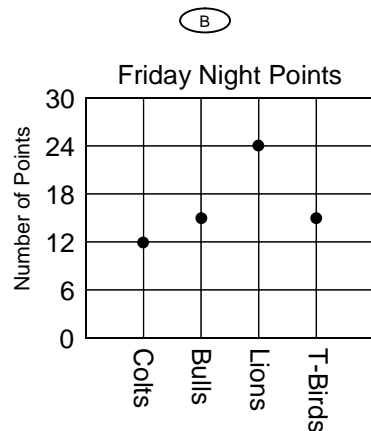
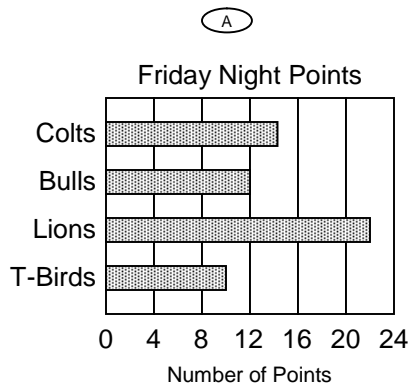


If Ms. Soto adds stones to make the patio 2 feet longer and 1 foot wider, what will be the area of the patio?

- (A) 58 sq ft
- (B) 120 sq ft
- (C) 154 sq ft
- (D) 52 sq ft

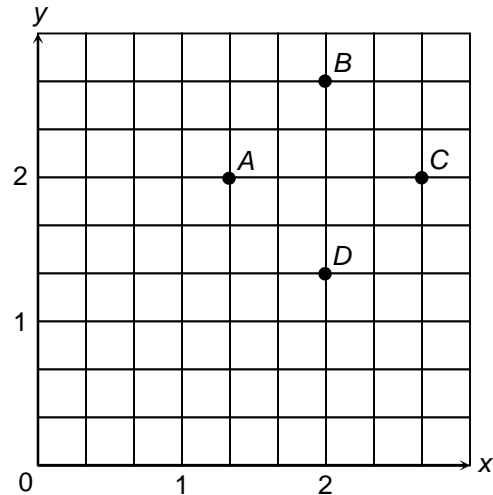
6.8B

7 Four football teams played last Friday night. The *Colts* scored 15 points, the *Bulls* scored 12 points, the *Lions* scored 24 points, and the *T-Birds* scored 12 points. Which graph most accurately represents this information?



6.10A

1 Which point represents the location of the ordered pair $(2\frac{2}{3}, 2)$?



- A B C D

6.7A

2 A miner found 4.7 grams of gold and 12.5 grams of silver. How many more grams of silver than gold did the miner find?

- A 7.8 g C 17.2 g
 B 12.2 g D 6.6 g

6.2B

3 Tax included, Cedro bought a sandwich for \$4.75, a drink for \$1.85, and a bag of potato chips for \$1.30. If he paid for the items with a \$10.00 bill, what change should he have received?

- A One five-dollar bill and nine dimes
 B Two one-dollar bills and one quarter
 C Two one-dollar bills and two dimes
 D Two one-dollar bills and one dime

6.11A

4 The table shows the relationship between the number of tables and the number of students seated at the tables.

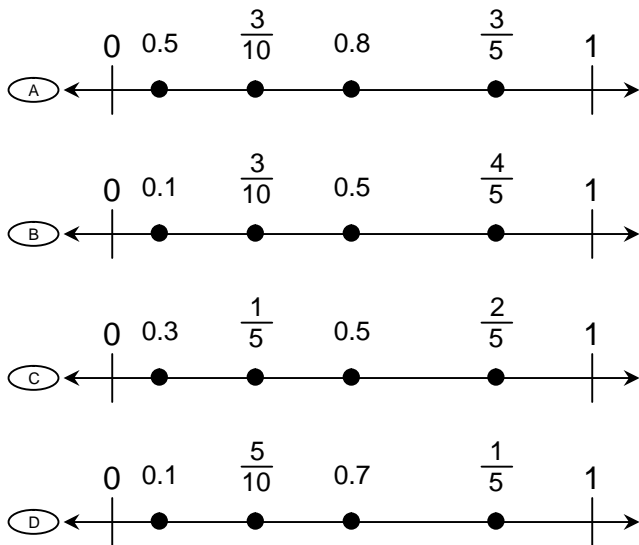
Number of Students (s)	Number of Tables (t)
64	8
96	12
128	16

Which equation can be used to find t , the number of tables needed, in terms of s , the number of students seated?

- A $t = s \div 8$ C $t = 8s$
 B $t = s - 56$ D $t = s + 8$

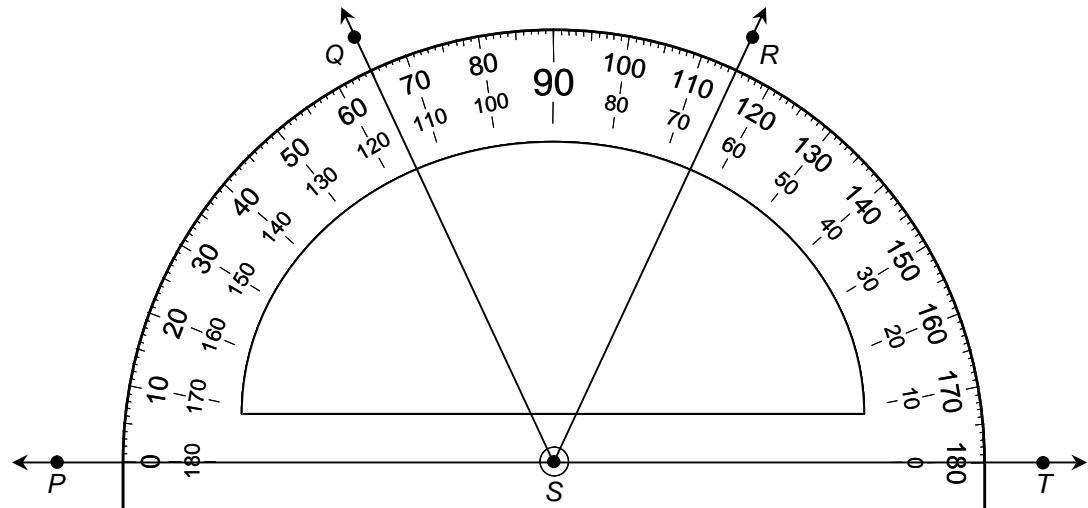
6.5A

5 Which number line below shows the points correctly labeled?



6.1A

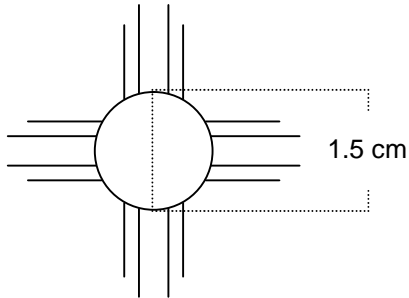
6 What is the measure of $\angle PSR$?



- A 125° B 65° C 115° D 50°

6.8C

1 Courtney drew a Zia symbol. The circle in the center of the symbol has a diameter of 1.5 centimeters.



Which expression can be used to find the approximate circumference of the circle in the center of the Zia?

- (A) $2(\pi)(1.5)$
- (B) $\pi(\pi)(1.5)$
- (C) $2(1.5)$
- (D) $\pi(1.5)$

6.6C

2 Which expression below shows the prime factorization of 504?

- (A) $2^2 \cdot 3^3 \cdot 5$
- (B) $2^3 \cdot 3^2 \cdot 7$
- (C) $2^3 \cdot 3 \cdot 5 \cdot 7$
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6.1D

3 Alberto created a set of numbers.

Alberto's Set: 8, 16, 48, 92

Which statement about the numbers is true?

- (A) They are divisible by 8
- (B) They are all factors of 92
- (C) They are all multiples of 4
- (D) They are all odd numbers

6.13A

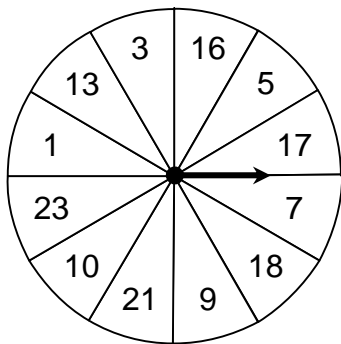
4 Amber's teacher assigned her a novel to read. If Amber reads 34 pages of the novel each day for the next 12 days, she will finish. How many pages long is the novel?

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

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

6.2C

5 Pedro made the game spinner below. He will spin the arrow 1 time.



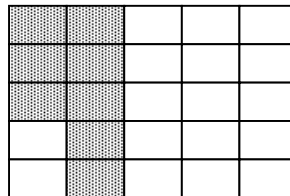
What is the probability that the arrow will NOT point to an odd number?

- (A) $\frac{1}{4}$
- (B) $\frac{9}{12}$
- (C) $\frac{1}{3}$
- (D) $\frac{3}{10}$

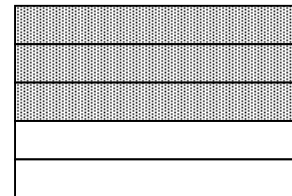
6.9B

6 Mrs. Harris and her daughter ate 35% of the brownies in a pan. Which model is shaded to represent 35%?

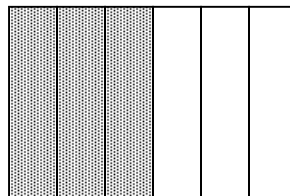
(A)



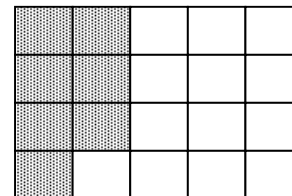
(C)



(B)



(D)



6.3B

7 Peter is going to make a long row of 25 different sports cards. The first card will be a baseball card, the second will be a football card, the third will be a hockey card, and the fourth will be a basketball card. He will repeat this pattern until he completes the 25-card row. What is the total number of baseball cards that will be in the row?

- (A) 4 baseball cards
- (B) 7 baseball cards
- (C) 6 baseball cards
- (D) 8 baseball cards

6.11C

1 Mr. Gruener has 30 students in his science class. The classroom has 5 laboratory tables, 3 computer stations, and 10 supply boxes. What is the ratio of computer stations to students?

- (A) 1:10 (C) 3:10
- (B) 1:6 (D) 1:3

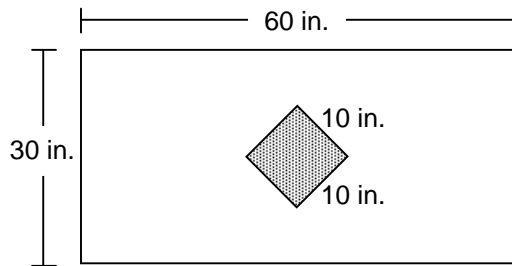
6.3A

2 What is the least common multiple of 15 and 18?

- (A) 270 (C) 3
- (B) 90 (D) 108

6.1F

4 Vanessa made a white and gray flag as shown below.



What is the area of the white part of the flag?

- (A) 180 sq in. (C) 1,850 sq in.
- (B) 1,900 sq in. (D) 1,700 sq in.

6.8B

3 Lindsey rides her bike 125 kilometers each week. Which table represents the relationship between w , the number of weeks, and d , the distance she rides her bike for that length of time?

(A)

w	d (km)
125	1
250	2
375	3
500	4

(C)

w	d (km)
3	325
5	525
7	725
9	925

(B)

w	d (km)
2	250
4	500
6	750
8	1,000

(D)

w	d (km)
1	225
3	350
5	600
7	850

6.4A

5 Carlos has \$150. He wants to buy an MP3 player, a video game, and a book. Which order of steps will find the amount of money he will have left after buying the 3 items?

Step X: Find the difference between the total cost of the items and \$150

Step Y: Identify the cost of each of the 3 items

Step Z: Find the sum of the cost of the 3 items

- (A) X, Y, Z (C) Y, Z, X
- (B) Z, X, Y (D) X, Z, Y

6.11B

6 The table shows the number of text messages that Zachary sent on 6 days last week.

Saturday	24
Sunday	14
Monday	10
Tuesday	8
Wednesday	5
Thursday	5

What is the median number of messages he sent?

- (A) 11 (B) 5 (C) 16 (D) 9

6.10B

1 A dolphin was swimming at the surface of an ocean. The dolphin swam 150 feet below the surface for a few seconds. It returned to the surface and then jumped 15 feet above the water. What integer best represents how far beneath the surface of the water the dolphin swam?

- (A) 15
- (B) -150
- (C) 150
- (D) -165

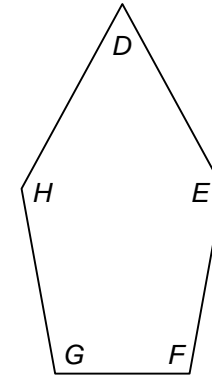
6.1C

2 Kuan-Yin wants to jog a total distance of 2 miles. So far, he has jogged 7,545 feet. How much farther must he jog to reach his goal of 2 miles?

- (A) 3,015 feet
- (B) 2,265 feet
- (C) 1 mile
- (D) 4,025 feet

6.8D

4 Bernice drew the pentagon below and then labeled the interior angles D , E , F , G , and H .



Which angle in Bernice's pentagon is **NOT** obtuse?

- (A) $\angle DEF$
- (B) $\angle EDH$
- (C) $\angle EFG$
- (D) $\angle FGH$

6.6A

3 Keisha studied for a test 3 times as long as Malika. Which statement is best supported by this information?

- (A) Malika scored 70 points on the test and Keisha scored a 100 points
- (B) Malika arrived to school at 7:16 A.M. and Keisha arrived at 7:13 A.M.
- (C) Malika studied for 45 minutes and Keisha studied for 2 hours 15 minutes
- (D) Malika began studying at 9:00 P.M. and Keisha began studying at 6:00 P.M.

6.11A

5 The table shows the volumes of a rectangular prism where the length and width stay the same but the height changes.

Length (units)	Width (units)	Height (units)	Volume (cubic units)
5	4	1	20
5	4	3	60
5	4	5	100
5	4	z	?

Which expression can be used to find the volume of a rectangular prism that has a length of 5, a width of 4, and a height of z units?

- (A) $5^3 + 4 + z$
- (B) $5 + (4 \div z)$
- (C) $5(4 + z)$
- (D) $5 \cdot 4 \cdot z$

6.4B

6 Jasmine simplified the expression below to correctly solve a math problem.

$$(8 + 6) \div 2 + 5$$

What was the answer to Jasmine's math problem?

- (A) 2
- (B) 12
- (C) 4
- (D) 16

6.2E

7 Douglas asked 36 students in his class to vote for their favorite food. He recorded the results in the table below.

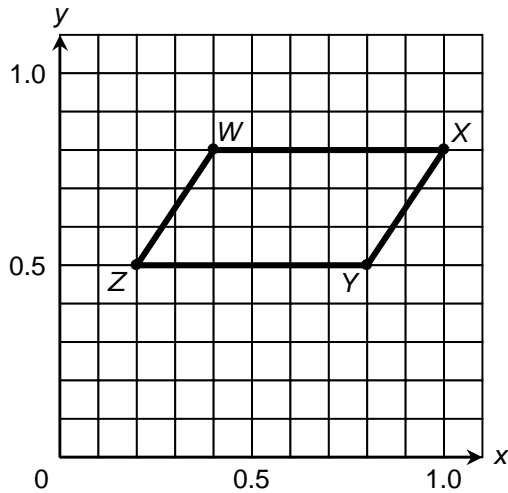
Food	Votes
Pizza	13
Burger	9
Salad	6
Chicken	8

If Douglas asks all of the 600 students at his school to vote for their favorite food, about how many students can be expected to vote for salad?

- (A) 100
- (B) 60
- (C) 215
- (D) 150

6.3C

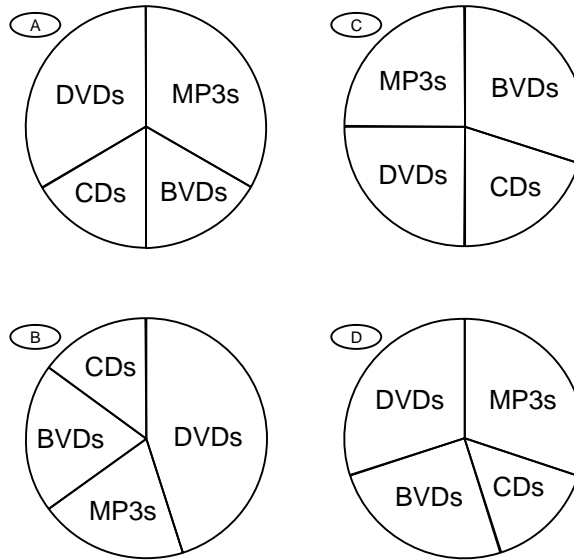
1 What are the coordinates of point *W* in quadrilateral *WXYZ*?



- (A) (0.4, 0.8)
- (B) (0.2, 0.8)
- (C) (1, 0.8)
- (D) (0.8, 0.4)

6.7A

2 Paul spent \$30 on DVDs, \$15 on CDs, \$30 on MP3s, and \$25 on BVDs. Which graph best represents this data?



6.10C

3 Rachel drew a quadrilateral. The measures of 2 of its angles were both 90° . One angle measured 45° . What was the measure of the fourth angle?

- (A) 45°
- (B) 225°
- (C) 135°
- (D) 145°

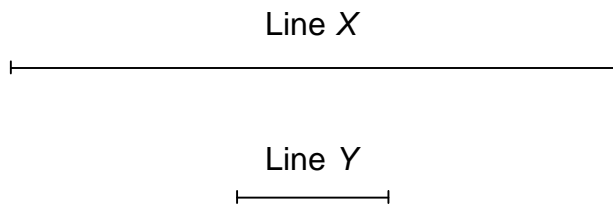
6.6B

4 Avery used four colors of dye to decorate 48 scarves. She dyed half of the scarves yellow. Of the remaining half, she dyed 10 of them black, 8 blue, and the rest green. What fraction of the scarves was dyed green?

- (A) $\frac{1}{8}$
- (B) $\frac{1}{2}$
- (C) $\frac{1}{3}$
- (D) $\frac{1}{4}$

6.11B

5 Use a ruler to measure the length of line *X* and line *Y* to the nearest centimeter.

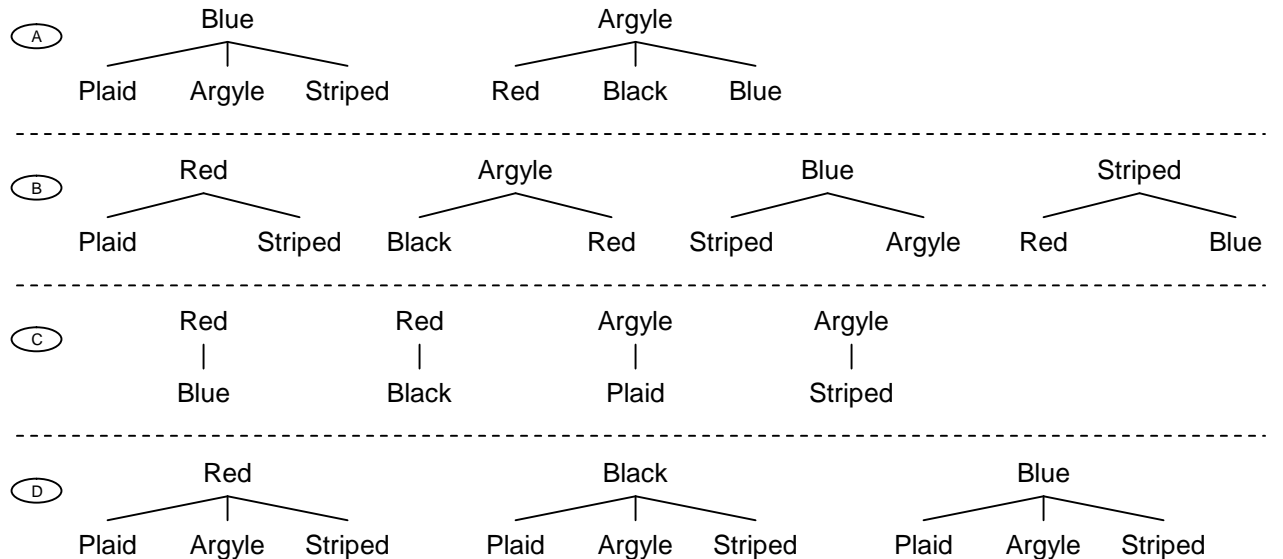


Which best represents the ratio of line *X* to line *Y*?

- (A) 8 to 1
- (B) 4 to 1
- (C) 7 to 2
- (D) 8 to 4

6.3B

6 Gerald will choose a color of shirt and a style of tie to wear today. He can choose from a red, black, or blue shirt. He can choose from a plaid, argyle, or striped tie. Which diagram shows all of the possible combinations of 1 color of shirt and 1 style of tie?



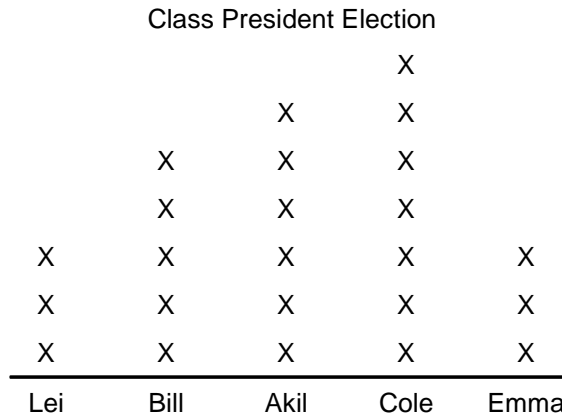
6.9A

1 Mr. Espinoza wants to camp on the beach for 3 nights. To camp on the beach, a person must pay a basic fee of \$10 and then pay \$7.50 each night. Which equation can Mr. Espinoza use to find m , the amount of money in dollars he will have to pay to camp on the beach for 3 nights?

- (A) $m = 10 - (7.5 \times 3)$
- (B) $m = 10 + (7.5 \times 3)$
- (C) $m = 10 \cdot (7.5 \times 3)$
- (D) $m = 10 \div (7.5 \times 3)$

6.12A

2 The line plot shows the votes that 5 students received during a class election. Which statement is supported by the data in the line plot?



- (A) Bill received twice as many votes as Lei
- (B) Emma received half as many votes as Bill
- (C) Cole received 2 more votes than Bill and 4 more votes than Emma
- (D) Bill and Lei together received 9 votes

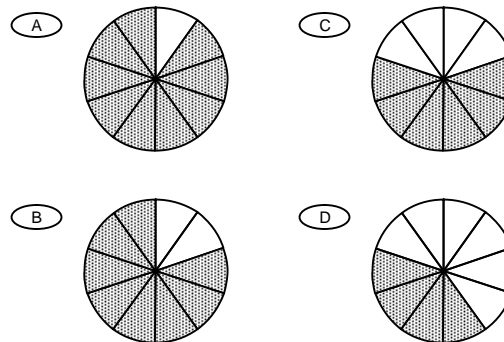
6.10D

3 The ratio of girls to boys in the school choir is about 7 to 4. If there are 16 boys in the school choir, about how many of the students in the choir would be girls?

- (A) 35
- (B) 20
- (C) 23
- (D) 28

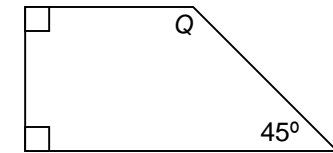
6.3C

5 The math club at Kent's school is going to raise money to purchase a new computer. The club will raise $\frac{1}{2}$ of the money at a bake sale and $\frac{2}{5}$ of the money at a car wash. Each figure below represents the money they need to raise to buy the computer. Which figure is shaded to show how much of the money the club will raise at the bake sale and car wash?



6.2A

6 Look at the trapezoid.



What is the measure of $\angle Q$?

- (A) 35°
- (B) 120°
- (C) 90°
- (D) 135°

6.6B

4 Latanya is going to buy magnets and iron wires for a science experiment. Magnets are sold 6 to a pack and iron wires are sold 10 to a pack. Which shows the least number of packs that she should buy to have an equal number of magnets and iron wires?

- (A) 3 packs of magnets, 5 packs of wires
- (B) 5 packs of magnets, 3 packs of wires
- (C) 5 packs of magnets, 6 packs of wires
- (D) 4 packs of magnets, 3 packs of wires

6.11B

7 For homework, Olivia studied 4 subjects last night. She studied math for 22 minutes, science for 64 minutes, history for 19 minutes, and English for 57 minutes. Which is the best estimate of the total amount of time that Olivia studied last night?

- (A) 2 hours 10 minutes
- (B) 2.5 hours
- (C) 2 hours 40 minutes
- (D) 1.45 hours

6.2A

6.8A