

8th Grade

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# QUICK CHECKS

## ANSWER KEYS

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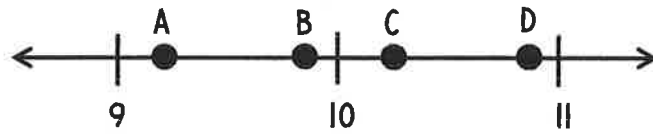
# REAL NUMBER SYSTEM

## QUICK CHECK

Name Answer Key

Date \_\_\_\_\_ Pd \_\_\_\_\_

1. Which of the following points best represents  $\sqrt{106}$ ?



A. Point A

B. Point B

C. Point C

D. Point D

2. Isabella is comparing the values below. Which list shows the values in descending order?

$$7.42, 7\frac{7}{9}, 79\%, \sqrt{48}$$

F.  $7\frac{7}{9}, 7.42, \sqrt{48}, 79\%$

H.  $79\%, 7\frac{7}{9}, 7.42, \sqrt{48}$

G.  $\sqrt{48}, 7\frac{7}{9}, 7.42, 79\%$

J.  $7.42, 7\frac{7}{9}, \sqrt{48}, 79\%$

3. Everett measured the weight of a substance as a repeating decimal greater than one. Which of the following could be the weight of the substance?

A.  $\frac{26}{25}$  pounds

B.  $\frac{8}{4}$  pounds

C.  $\frac{31}{33}$  pounds

D.  $\frac{100}{99}$  pounds

4. A square room in Amber's home has an area of 128 square feet. Which is the best estimate of one side length of the room?

F. 32 feet, because  $128 \div 4 = 32$ .

H. 64 feet, because  $\sqrt{128} = 64$ .

G. 11.3 feet, because  $\sqrt{128}$  is between 11 and 12.

J. 10.9 feet, because  $\sqrt{128}$  is between 10 and 11.

5. Jamal needs to order the four cards shown in increasing order. Which would be the correct order of the cards?

A. Card D, Card A, Card B, Card C

B. Card A, Card D, Card C, Card B

C. Card C, Card B, Card A, Card D

D. Card B, Card A, Card D, Card C

A	B	C	D
$\frac{2}{-9}$	-25	$-\bar{3}$	$-\frac{1}{5}$

1.	(A)	(B)	(C)	(D)
2.	(A)	(B)	(C)	(D)
3.	(A)	(B)	(C)	(D)
4.	(E)	(F)	(G)	(H)
5.	(A)	(B)	(C)	(D)
6.	(E)	(F)	(G)	(H)
7.	(A)	(B)	(C)	(D)
8.	(E)	(F)	(G)	(H)
9.	(A)	(B)	(C)	(D)

10. Use the grid below.

				1	.	2	5
(+)	(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)

# EXPONENTS AND SCIENTIFIC NOTATION

## QUICK CHECK

Name Answer Key

Date \_\_\_\_\_ Pd \_\_\_\_\_

1. Which of the following is true?

- A.  $n^9 \times n^3 = n^{27}$
- B.  $\frac{n^{12}}{n^4} = n^8$
- C.  $(n^6)^2 = n^8$
- D.  $n^{-4} = -n^4$

2. Which value is equal to  $\sqrt[3]{729}$ ?

- F.  $\sqrt[3]{729} = 243$  because  $729 \div 3 = 243$ .
- G.  $\sqrt[3]{729} = 81$  because  $729 \div 3 = 243$  and  $243 \div 3 = 81$ .
- H.  $\sqrt[3]{729} = 3$  because  $(3^3)^2 = 729$ .
- J.  $\sqrt[3]{729} = 9$  because  $9 \times 9 \times 9 = 729$ .

3. Shantel read that the distance between the sun and Mercury is about 36,000,000 miles. Which of the following correctly represents this distance in scientific notation?

- A.  $.36 \times 10^8$
- B.  $3.6 \times 10^7$
- C.  $3.6 \times 10^{-7}$
- D.  $3.6 \times 10^6$

4. In one year, a theme park had approximately  $2 \times 10^7$  guests. In the same year, a second theme park had approximately  $4 \times 10^6$  guests. Which is a true statement about the number of guests each theme park had?

- F. The first theme park had about 5 times as many guests than the second.
- G. The second theme park had about 2 times as many guests than the first.
- H. The first theme park had about 10 times as many guests than the second.
- J. The first theme park had about 2 times as many guests than the second.

5. Jett knows that  $x^2 = 64$ . Which of the following represents the step that Jett should take to find the correct value of  $x$ ?

- A.  $64 \div 2 = x$
- B.  $64 \div 4 = x$
- C.  $\sqrt{64} = x$
- D.  $\sqrt[3]{64} = x$

1. (A) ● (C) (D)  
 2. (F) (G) (H) ●  
 3. (A) ● (C) (D)  
 4. ● (G) (H) (J)  
 5. (A) (B) ● (D)  
 6. (F) (G) ● (J)  
 7. (A) (B) ● (D)  
 8. ● (G) (H) (J)  
 9. (A) (B) (C) ●

10. Use the grid below.

				<b>3</b>	.		
+	0	0	0	0		0	0
-	1	1	1	1		1	1
	2	2	2	2		2	2
	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

# FUNCTIONS AND SLOPE

## QUICK CHECK

Name Answer Key

Date \_\_\_\_\_ Pd \_\_\_\_\_

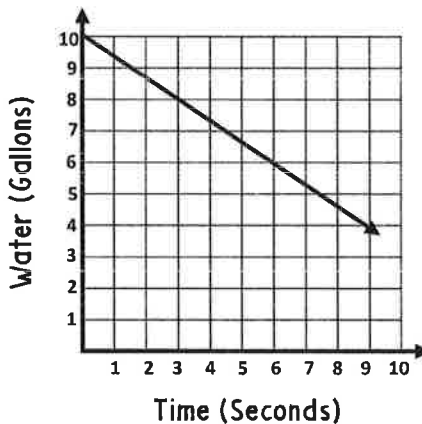
1. The table below shows Vanessa's height in inches for two different years.

YEAR (x)	2000	2005
HEIGHT (y)	48 inches	54 inches

Which is a correct conclusion about the rate of change shown in the table?

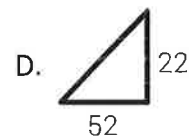
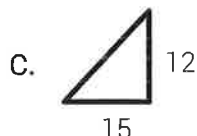
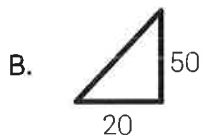
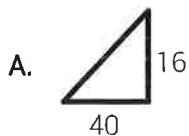
- A. Vanessa grows about 41.7 inches per year.
- B. Vanessa grows about 6 inches per year.
- C. Vanessa grows about 1.2 inches per year.
- D. Vanessa grows about .83 inches per year.

2. Ariel is emptying the water from a 10 gallon cooler. The graph shows the water level in the cooler as she empties it. Which best describes the rate of change shown in the graph?



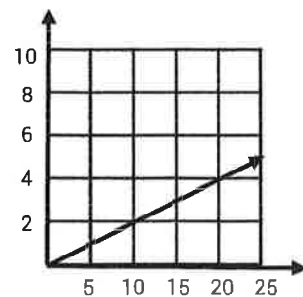
- F. The water level decreases 10 gallons per second.
- G. The water level decreases 1 gallon every 2 seconds.
- H. The water level decreases 3 gallons every 2 seconds.
- J. The water level decreases 2 gallons every 3 seconds.

3. The slope of a graphed line is  $\frac{2}{5}$ . Which of the following triangles could lie on the line?



4. Which of the following situation does not have the same unit rate as the graph shown?

- F. Asher buys gum for \$0.20 a piece.
- G. A daycare has six workers for every 30 children.
- H. Melanie reads 9 pages of her book every 45 minutes.
- J. Richie earns \$10 every 2 hours to pet sit for his neighbor.



1. (A) (B)  (C) (D)

2. (F) (G) (H)  (J)

3.  (A) (B) (C) (D)

4. (F) (G) (H)  (J)

5. (A)  (B) (C) (D)

6. (F) (G)  (H) (J)

7. (A) (B) (C)  (D)

8. (F)  (G) (H) (J)

9.  (A) (B) (C) (D)

10. Use the grid below.

-			1	0	.	5	
(+)	(0)	(0)	(0)	<input checked="" type="radio"/>		(0)	(0)
<input checked="" type="radio"/>	(1)	(1)	<input checked="" type="radio"/>	(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)		<input checked="" type="radio"/>	(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)

# LINEAR RELATIONSHIPS

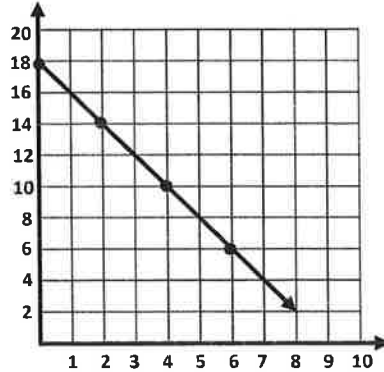
## QUICK CHECK

Name Answer Key

Date \_\_\_\_\_ Pd \_\_\_\_\_

1. Which of the statements about the graph below is true?

- A. The graph is non-linear and has an equation of  $y = -x + 18$ .
- B. The graph is linear and has an equation of  $y = -x + 18$ .
- C. The graph is linear and has an equation of  $y = -2x + 18$ .
- D. None of the above statements are true.



2. The table below shows the amount that a catering company charges based on the number of people at an event. Which of the following equations shows the relationship between  $c$ , the amount the company charges based on  $p$ , the number of people at the event?

- F.  $c = 16p$
- G.  $c = 75p + 13$
- H.  $p = 13c + 75$
- J.  $c = 13p + 75$

People ( $p$ )	Total Charge ( $c$ )
25	\$400
50	\$725
75	\$1,050
100	\$1,375

3. Which of the following gives an example of an equation that is non-linear?

- A.  $y = x^2 - 1$
- B.  $y = 2x - 1$
- C.  $y = \frac{x}{4}$
- D.  $y = -2x$

4. Kit charges customers an initial fee plus a certain amount per hour to walk their pets. The table below shows the amount of money that Kit earns at her job based on the number of hours that she works. Which of the following equations represents a scenario where Kit would charge customers a higher hourly rate to walk their pets than what is shown in the table?

- F.  $y = 7.25x + 20$
- G.  $y = 8x + 10$
- H.  $y = 7.5x$
- J.  $y = -10x + 15$

HOURS	EARNINGS (\$)
0	15
1	22.5
2	30
3	37.5

1. (A) (B)  (C) (D)

2. (F) (G) (H)  (I)

3.  (A) (B) (C) (D)

4. (F)  (G) (H) (I)

5.  (A) (B) (C) (D)

6. (F) (G)  (H) (I)

7. (A) (B) (C)  (D)

8. (F)  (G) (H) (I)

9.  (A) (B) (C) (D)

10. Use the grid below.

-			1	2	.		
+	0	0	0	0		0	0
<input checked="" type="radio"/>	1	1	<input checked="" type="radio"/>	1		1	1
	2	2	2	<input checked="" type="radio"/>		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

# LINEAR EQUATIONS

## QUICK CHECK

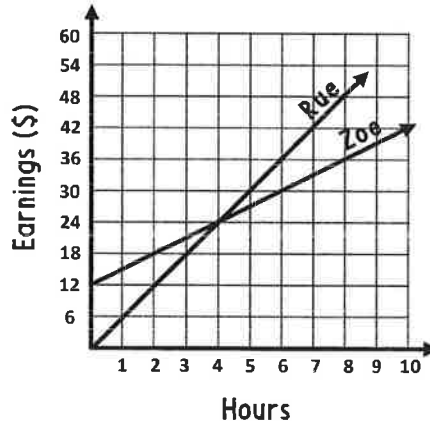
Name Answer Key

Date \_\_\_\_\_ Pd \_\_\_\_\_

1. Gym A charges a registration fee of \$75 plus \$35.75 per month for members. Gym B charges a registration fee of \$164 plus \$17.95 for members. After how many months would the total cost at Gym A and Gym B to be the same for members?

- A. 10 months
- B. 5 months
- C. 7 months
- D. The total cost will never be the same.

2. The graph below shows the number of hours that Rue and Zoe have been working at their jobs, as well as how much money they've earned. Which is a correct conclusion about the information shown in the graph?



- F. After 24 hours, Rue and Zoe will have earned the same amount of money.
- G. After 4 hours, Zoe will have earned \$12 more than Rue.
- H. After 4 hours, Rue will have earned \$12 more than Zoe.
- J. After 4 hours, Rue and Zoe will have earned the same amount of money.

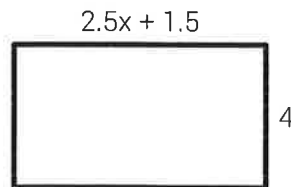
3. Find the value of x needed to make the equation below true.

$$\frac{3}{4}(20x - 8) - 3 = 54$$

- A. x = 3.8
- B. x = 4.2
- C. x = 4
- D. x = 3.3

4. The area of the rectangle shown below is 36 square units. Set up and solve an equation to find the value of x.

- F. x = 4.4
- G. x = 3.45
- H. x = 3
- J. x = 5



- 1. (A) ● (C) (D)
- 2. (F) (G) (H) ●
- 3. (A) ● (C) (D)
- 4. (F) (G) ● (J)
- 5. ● (B) (C) (D)
- 6. (F) (G) ● (J)
- 7. ● (B) (C) (D)
- 8. (F) (G) (H) ●
- 9. (A) ● (C) (D)

10. Use the grid below.

					.	9	4
(+)	(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)	●
	(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)

# ANGLE RELATIONSHIPS

## QUICK CHECK

Name Answer Key

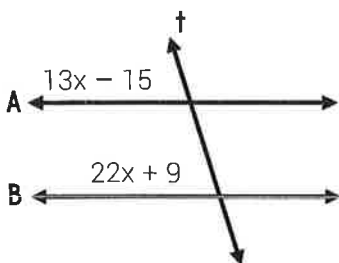
Date \_\_\_\_\_ Pd \_\_\_\_\_

1. Two angles in a triangle measure  $(2.3x + 25)^\circ$  and  $(5.8x + 11)^\circ$ . What is the value of  $x$  if the two angles are congruent to one another?

- A.  $x = 34.2$       B.  $x = 10.3$       C.  $x = 6.6$       D.  $x = 4$

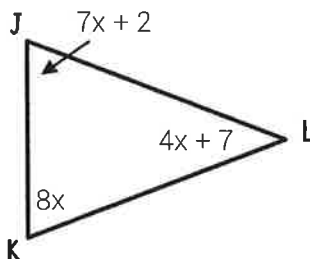
2. Lines A and B below are parallel lines cut by transversal,  $t$ . Which of the following equations could be used to find the value of  $x$ ?

- F.  $35x - 6 = 180$   
 G.  $9x + 24 = 180$   
 H.  $13x - 15 = 22x + 9$   
 J.  $13x + 9 = 22x - 15$



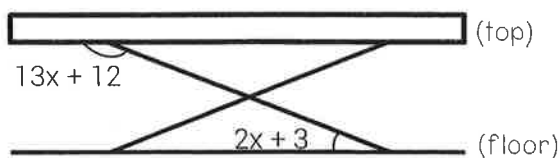
3. Triangle JKL is shown below. Which of the following is not a true statement about the angles in the triangle?

- A. The sum of  $\angle J + \angle K + \angle L = 180^\circ$ .  
 B. The measure of  $\angle J$  is  $65^\circ$ .  
 C. The measure of  $\angle K$  is  $89^\circ$ .  
 D. The measure of  $\angle L$  is  $43^\circ$ .



4. The top of Lucy's dining table is parallel to the floor as shown. Using the two marked angles, write and solve an equation to find the value of  $x$ .

- F.  $x = \frac{9}{11}$   
 G.  $x = 11$   
 H.  $x = 25$   
 J.  $x = 9$



5. Jose constructed Triangle DCE, where  $m\angle D = 103^\circ$  and  $m\angle C = 22^\circ$ . Remy constructed triangle PQT, where  $m\angle Q = 22^\circ$ , and  $m\angle T = 55^\circ$ . Are the two triangles similar to one another?

- A. Yes, because two pairs of corresponding angles in the triangles are congruent.  
 B. No, because none of the corresponding pairs of angles in the triangles are congruent.  
 C. No, because  $103 + 22 \neq 22 + 55$ .  
 D. There is not enough information to determine if the two triangles are similar to one another.

1.	(A)	(B)	(C)	(D)			
2.	(F)	(G)	(H)	(J)			
3.	(A)	(B)	(C)	(D)			
4.	(F)	(G)	(H)	(J)			
5.	(A)	(B)	(C)	(D)			
6.	(F)	(G)	(H)	(J)			
7.	(A)	(B)	(C)	(D)			
8.	(F)	(G)	(H)	(J)			
9.	(A)	(B)	(C)	(D)			
10. Use the grid below.							
		1	3	6	.		
(+)	(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)

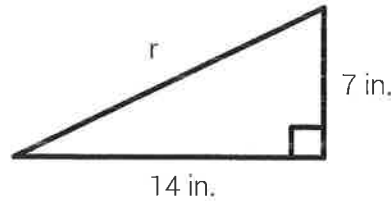
# PYTHAGOREAN THEOREM

## QUICK CHECK

Name Answer Key

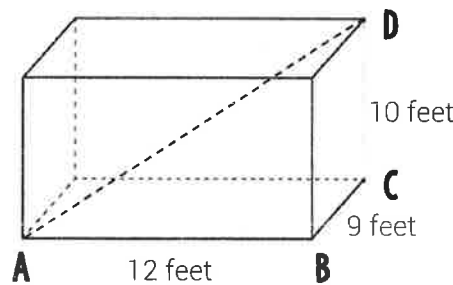
Date \_\_\_\_\_ Pd \_\_\_\_\_

1. The side view of a ramp that Jessie built for his race cars is shown below. Find  $r$ , the length of the ramp to the nearest tenth.



- A. 21 inches
- B. 15.7 inches
- C. 6.5 inches
- D. 17.4 inches

2. Use the diagram below to find the approximate length of diagonal AD.

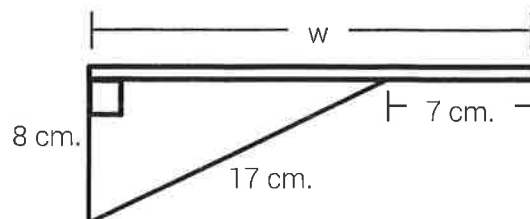


- F. 18 feet
- G. 11.2 feet
- H. 15 feet
- J. 21.2 feet

3. Titus is building a triangular frame with three pieces of wood that measure 3 inches, 5 inches and 10 inches. Which of the following is true about the frame?

- A. The frame will be a right triangle because  $5(2) + 3(2) < 10(2)$ .
- B. The frame will be a right triangle because  $5^2 + 3^2 < 10^2$ .
- C. The frame will not be a right triangle because  $5^2 + 3^2 \neq 10^2$ .
- D. The frame will not be a right triangle because  $5(2) + 3(2) \neq 10(2)$ .

4. The side view of a wall shelf in Luke's office is shown below. The diagonal support piece is 17 centimeters, and the piece against the wall is 8 centimeters. What is the approximate measure of  $w$ , the total width of the shelf?



- F. 8 centimeters
- G. 15 centimeters
- H. 22 centimeters
- J. 26 centimeters

1.	(A)	<input checked="" type="radio"/>	(C)	(D)
2.	<input checked="" type="radio"/>	(G)	(H)	(J)
3.	(A)	(B)	<input checked="" type="radio"/>	(D)
4.	(F)	(G)	<input checked="" type="radio"/>	(J)
5.	(A)	(B)	(C)	<input checked="" type="radio"/>
6.	<input checked="" type="radio"/>	(G)	(H)	(J)
7.	(A)	(B)	(C)	<input checked="" type="radio"/>
8.	(F)	<input checked="" type="radio"/>	(H)	(J)
9.	(A)	<input checked="" type="radio"/>	(C)	(D)

10. Use the grid below.

			1	0	.		
(+)	(0)	(0)	(0)	<input checked="" type="radio"/>		(0)	(0)
(-)	(1)	(1)	<input checked="" type="radio"/>	(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)



# VOLUME

Name Answer Key

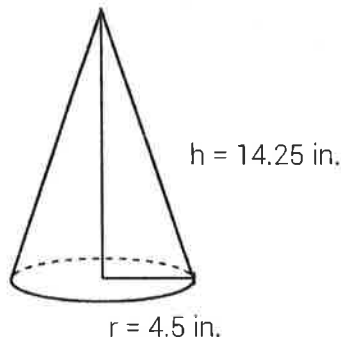
Date \_\_\_\_\_ Pd \_\_\_\_\_

## QUICK CHECK

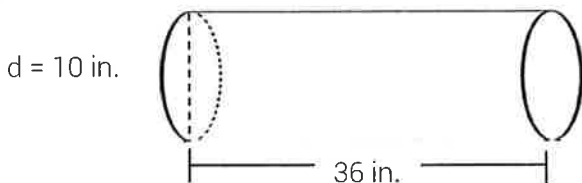
Solve each problem below, and use 3.14 for pi.

1. Which of the expressions below could be used to find the amount of space occupied by the cone?

- A.  $\frac{1}{3}(3.14)(4.5^2)(14.25)$
- B.  $\frac{1}{3}(3.14)(9^2)(14.25)$
- C.  $\frac{1}{3}(3.14)(4.5^3)(14.25)$
- D.  $(3.14)(4.5^2)(14.25)$



2. Which of the following descriptions correctly explains how to find the volume of the cylinder shown?



- F. Multiply  $360 \text{ in.}^2$  (the area of the base) by 10 in. (the height of the cylinder).
- G. Add  $157 \text{ in.}^2$  (the area of the bases) with  $1130.4 \text{ in.}^2$  (the lateral surface area).
- H. Multiply  $314 \text{ in.}^2$  (the area of the base) by 36 in. (the height of the cylinder).
- J. Multiply  $78.5 \text{ in.}^2$  (the area of the base) by 36 in. (the height of the cylinder).

3. A cylinder has a volume of 8,792 cubic units. If the height of the cylinder is 7 units, which of the following represents the radius of the cylinder?

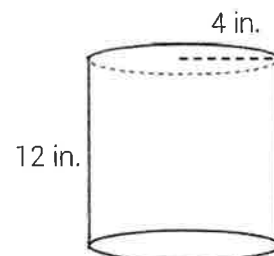
- A. 10 units
- B. 20 units
- C. 40 units
- D. 15 units

4. Cindy has a cylindrical container in her kitchen with the measurements shown at the right. If  $\frac{3}{4}$  of the space inside the container is filled with sugar, how many cubic inches of sugar are in the container?

- F.  $602.88 \text{ in.}^3$
- G.  $452.16 \text{ in.}^3$
- H.  $803.84 \text{ in.}^3$
- J.  $200.96 \text{ in.}^3$

1.  A  B  C  D
  2.  F  G  H  J
  3.  A  B  C  D
  4.  F  G  H  J
  5.  A  B  C  D
  6.  A  G  H  J
  7.  A  B  C  D
  8.  F  G  H  J
  9.  A  B  C  D
10. Use the grid below.

			1	2	.		
+	0	0	0	0		0	0
-	1	1	<input checked="" type="radio"/>	1		1	1
	2	2	2	<input checked="" type="radio"/>		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



# TRANSFORMATIONS

## QUICK CHECK

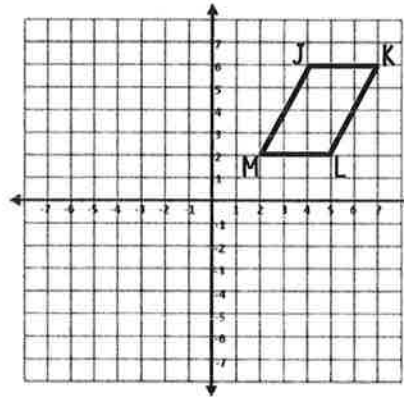
Name Answer Key

Date \_\_\_\_\_ Pd \_\_\_\_\_

1. Triangle ABC is dilated by a scale factor of 1.5 to create triangle A'B'C'. Which of the following is not a true statement?

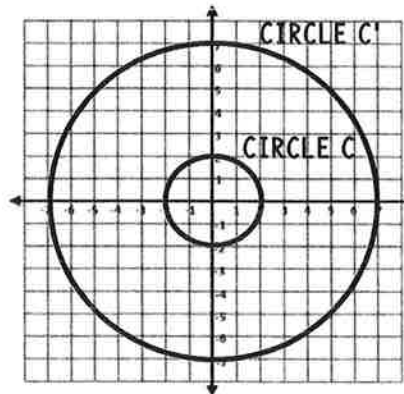
- A. The image is larger than the pre-image.
- B. The orientation of triangle ABC is preserved.
- C. Segment AB is congruent to segment A'B'.
- D. The angle measures in triangle ABC are equal to the angle measures in triangle A'B'C'.

2. Parallelogram JKLM shown below is going to be rotated 270° clockwise to create J'K'L'M'. Which rule describes this transformation?



- F.  $(x, y) \rightarrow (-y, x)$
- G.  $(x, y) \rightarrow (-x, -y)$
- H.  $(x, y) \rightarrow (y, -x)$
- J.  $(x, y) \rightarrow (-x, y)$

3. Circle C shown below was dilated with the origin as the center of dilation to create Circle C'. Which rule represents the transformation?



- A.  $(x, y) \rightarrow (\frac{2}{7}x, \frac{2}{7}y)$
- B.  $(x, y) \rightarrow (\frac{7}{2}x, \frac{7}{2}y)$
- C.  $(x, y) \rightarrow (x - 5, y - 5)$
- D.  $(x, y) \rightarrow (x + 5, y + 5)$

4. Which of the following statements is true?

- F.  $(x, y) \rightarrow (x - 7, y + 2)$  represents a translation 7 units down and 2 units to the right.
- G.  $(x, y) \rightarrow (-x, -y)$  represents a rotation 180° clockwise.
- H.  $(x, y) \rightarrow (x + 3.5, y + 3.5)$  represents a dilation with a scale factor of 3.5.
- J.  $(x, y) \rightarrow (-x, y)$  represents a reflection over the x-axis.

1.	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D
2.	<input checked="" type="radio"/> A	<input type="radio"/> G	<input type="radio"/> H	<input type="radio"/> J
3.	<input type="radio"/> A	<input checked="" type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D
4.	<input type="radio"/> F	<input checked="" type="radio"/> G	<input type="radio"/> H	<input type="radio"/> J
5.	<input type="radio"/> A	<input type="radio"/> B	<input checked="" type="radio"/> C	<input type="radio"/> D
6.	<input type="radio"/> F	<input type="radio"/> G	<input type="radio"/> H	<input checked="" type="radio"/> J
7.	<input checked="" type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input type="radio"/> D
8.	<input type="radio"/> F	<input type="radio"/> G	<input checked="" type="radio"/> H	<input type="radio"/> J
9.	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C	<input checked="" type="radio"/> D

10. Use the grid below.

				2	.	5	
+	<input type="radio"/> 0	<input type="radio"/> 0	<input type="radio"/> 0	<input type="radio"/> 0		<input type="radio"/> 0	<input type="radio"/> 0
-	<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1		<input type="radio"/> 1	<input type="radio"/> 1
	<input type="radio"/> 2	<input type="radio"/> 2	<input type="radio"/> 2	<input checked="" type="radio"/> 2		<input type="radio"/> 2	<input type="radio"/> 2
	<input type="radio"/> 3	<input type="radio"/> 3	<input type="radio"/> 3	<input type="radio"/> 3		<input type="radio"/> 3	<input type="radio"/> 3
	<input type="radio"/> 4	<input type="radio"/> 4	<input type="radio"/> 4	<input type="radio"/> 4		<input type="radio"/> 4	<input type="radio"/> 4
	<input type="radio"/> 5	<input type="radio"/> 5	<input type="radio"/> 5	<input type="radio"/> 5		<input type="radio"/> 5	<input checked="" type="radio"/> 5
	<input type="radio"/> 6	<input type="radio"/> 6	<input type="radio"/> 6	<input type="radio"/> 6		<input type="radio"/> 6	<input type="radio"/> 6
	<input type="radio"/> 7	<input type="radio"/> 7	<input type="radio"/> 7	<input type="radio"/> 7		<input type="radio"/> 7	<input type="radio"/> 7
	<input type="radio"/> 8	<input type="radio"/> 8	<input type="radio"/> 8	<input type="radio"/> 8		<input type="radio"/> 8	<input type="radio"/> 8
	<input type="radio"/> 9	<input type="radio"/> 9	<input type="radio"/> 9	<input type="radio"/> 9		<input type="radio"/> 9	<input type="radio"/> 9

# SCATTER PLOTS AND DATA

## QUICK CHECK

Name Answer Key

Date \_\_\_\_\_ Pd \_\_\_\_\_

1. The two-way table shows the number of male and female students enrolled in each grade at Cassandra's middle school.

	MALE	FEMALE	TOTAL
6 <sup>TH</sup> GRADE	116		
7 <sup>TH</sup> GRADE		137	263
8 <sup>TH</sup> GRADE	89		193
TOTAL			670

How many total female students are enrolled at Cassandra's middle school?

- A. 98                      B. 331                      C. 339                      D. 335

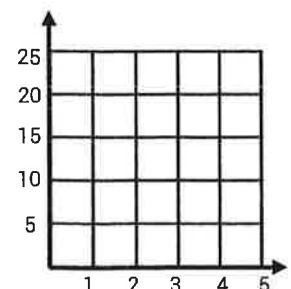
2. The scatterplot below shows the number of years of experience of 8 different wedding photographers and the number of weddings they photographed over the last year. Based on the scatter plot, what would be the best prediction of the number of weddings that a photographer with 7 years of experience would photograph in a year?



- F. 41  
G. 57  
H. 68  
J. 75

3. The table below shows the number of cats owned by 5 different individuals and the number of pounds of cat food each individual buys each month. Use the table to construct a scatter plot, and then choose the statement that best describes the data in the scatter plot.

NUMBER OF CATS	FOOD/MONTH (LBS.)
2	10
4	21
1	6
3	17
5	25



- A. The data appears linear with positive association.  
B. The data appears linear with negative association.  
C. The data appears non-linear with positive association.  
D. The data appears non-linear with no association.

1. (A) (B) ● (D)

2. (F) ● (H) (J)

3. ● (B) (C) (D)

4. (F) (G) (H) ●

5. (A) ● (C) (D)

6. (F) (G) ● (J)

7. (A) (B) (C) ●

8. Use the grid below.

				5		
+	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
	6	6	6	6		6 6
	7	7	7	7		7 7
	8	8	8	8		8 8
	9	9	9	9		9 9