

6th Grade

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**QUICK QUIZZES**  
ANSWER KEYS

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# THE NUMBER SYSTEM

## QUICK CHECK

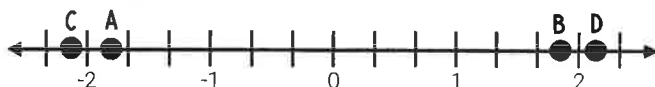
Name \_\_\_\_\_ Answer Key \_\_\_\_\_  
 Date \_\_\_\_\_ Pd \_\_\_\_\_

1. Meredith must order the cards from greatest to least. Which list is correct?



- A. -1.55, -1.5, -1.05, -1.0  
 B. -1.0, -1.05, -1.55, -1.5  
 C. -1.0, -1.05, -1.5, -1.55  
 D. -1.5, -1.55, -1.0, -1.05

2. The following numbers are placed on a number line. Which of the following best represents point A?



- F.  $-2\frac{1}{8}$   
 G.  $-1\frac{7}{8}$   
 H.  $2\frac{1}{8}$   
 J.  $1\frac{7}{8}$

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

3. The table below shows the number of miles run each day of the week. Which list shows the number of miles run in order from least to greatest?

MONDAY	TUESDAY	WEDNESDAY	THURSDAY
$3\frac{1}{3}$	$3\frac{2}{5}$	$3\frac{3}{8}$	$3\frac{1}{2}$

- A. Monday, Thursday, Wednesday, Tuesday  
 B. Thursday, Tuesday, Wednesday, Monday  
 C. Monday, Wednesday, Tuesday, Thursday  
 D. Tuesday, Monday, Wednesday, Thursday

4. Jillian tracks her progress on her spelling tests over a period of four weeks. Which list shows her scores from greatest to least?

WEEK 1	WEEK 2	WEEK 3	WEEK 4
$\frac{25}{30}$	$\frac{11}{15}$	82%	0.78

- F. Weeks 1, 3, 2, 4  
 G. Weeks 3, 1, 2, 4  
 H. Weeks 3, 1, 4, 2  
 J. Weeks 1, 3, 4, 2

5. Which of the following situations does **not** represent the number -14?

- A. The temperature drops 14°F.  
 B. An account is credited \$14.  
 C. A football player runs for a loss of 14 yards.  
 D. The element Silicon has 14 electrons.

# RATIONAL NUMBER OPERATIONS

## QUICK CHECK

Name \_\_\_\_\_ Answer Key  
Date \_\_\_\_\_ Pd \_\_\_\_\_

1. Maryanne is making a friendship necklace at summer camp using 1.6 cm beads. What is a reasonable estimate for the length if she uses 24 beads?

- A. 22.4 cm      B. 40 cm      C. 33.8 cm      D. 38.4 cm

2. A pitcher of iced tea holds 128 ounces. A large orange cooler holds 1,792 ounces of iced tea. How many pitchers of iced tea will it take to fill the large orange cooler?

- F. 12      G. 24      H. 14      J. 18

3. On a radio morning show, every 12th caller receives concert tickets, and every 16th caller receives an autographed album. What caller number will receive both?

- A. 24      B. 192      C. 48      D. 84

4. Mrs. Barker displays a math problem on the white board. Which of the following expressions is also equal to the problem on the white board?

$$\frac{3}{4} \div \frac{5}{8}$$

- F.  $\frac{3}{4} \cdot \frac{5}{8}$       G.  $\frac{4}{3} \cdot \frac{5}{8}$       H.  $\frac{3}{4} \cdot \frac{8}{5}$       J.  $\frac{4}{3} \cdot \frac{8}{5}$

5. In the month of January Sarah drove her car 3,219.2 miles. That brought the car's total mileage to 65,470.5 miles. How many miles were on the car before January?

- A. 68,689.7  
B. 62,251.3  
C. 62,269.3  
D. 57,345.8

1.	(A)	(B)	(C)	●			
2.	(F)	(G)	●	(J)			
3.	(A)	(B)	●	(D)			
4.	(F)	(G)	●	(J)			
5.	(A)	●	(C)	(D)			
6.	●	(G)	(H)	(J)			
7.	(A)	(B)	(C)	●			
8.	(F)	●	(H)	(J)			
9.	(A)	●	(C)	(D)			
10. Use the grid below.							
			6	0	.	3	2
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-	(1)	(1)	(1)	(1)		(1)	(1)
	(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)
	(7)	(7)	(7)	(7)		(7)	(7)
	(8)	(8)	(8)	(8)		(8)	(8)
	(9)	(9)	(9)	(9)		(9)	(9)

# RATIOS & PROPORTIONALITY

## QUICK CHECK

Name \_\_\_\_\_ Answer Key \_\_\_\_\_

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

1. A bike travels 24 miles in 3 hours. At this rate how many miles will the bike travel in 10 hours?

- A. 192
- B. 80
- C. 32
- D. 124

2. Edgar pays \$67.86 for 7.8 pounds of fertilizer. What is the price per pound of fertilizer?

- F. \$6.98
- G. \$5.65
- H. \$8.70
- J. \$10.26

3. Diana uses 30 grams of coffee beans to make 48 fluid ounces of coffee. When company comes she makes 96 fluid ounces of coffee. How many grams of coffee beans does Diana use when company comes?

- A. 160
- B. 60
- C. 98.2
- D. 14.4

4. Sarah Beth babysits and earns \$10.50 per hour. Which of the following best represents the relationship between the number of hours,  $h$ , and the total earnings,  $t$ .

- F.  $t = 10.50 + h$
- G.  $t = 10.50h$
- H.  $h = 10.50 + t$
- J.  $h = 10.50t$

5. The model below shows the ratio of gray to white squares. Which of the following is **not** an equivalent ratio of gray squares to total squares?



- A.  $9/24$
- B.  $21/60$
- C.  $15/40$
- D.  $27/72$

1.	(A)	●	(C)	(D)				
2.	(F)	(G)	●	(J)				
3.	(A)	●	(C)	(D)				
4.	(F)	●	(H)	(J)				
5.	(A)	●	(C)	(D)				
6.	(F)	(G)	●	(J)				
7.	●	(B)	(C)	(D)				
8.	(F)	(G)	(H)	●				
9.	(A)	●	(C)	(D)				
10. Use the grid below.								
			1	0	.	5		
+	⓪	⓪	⓪	●			⓪	⓪
-	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

# PERCENTS

## QUICK CHECK

Name \_\_\_\_\_

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

1. There are 200 end-of-the-year school dance tickets available. Students who have perfect attendance are able to purchase them in advance. If 18 tickets were purchased in advance, then what percent of the tickets were purchased in advance?

- A. 18%
- B. 22%
- C. 9%
- D. 14%

2. A survey shows that 85% of students carry a backpack to school. If there are 320 students in the school, then how many students carry a backpack?

- F. 302
- G. 220
- H. 190
- J. 272

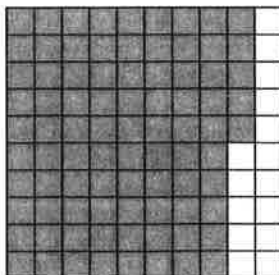
3. A flock of sheep has 182 white sheep and 98 spotted sheep. Which proportion can be used to determine  $p$ , the percent of the flock that has spots?

- A.  $\frac{p}{100} = \frac{98}{182}$
- B.  $\frac{p}{100} = \frac{182}{280}$
- C.  $\frac{280}{182} = \frac{98}{p}$
- D.  $\frac{98}{280} = \frac{p}{100}$

4. Eighty percent is best represented by which the following fractions?

- F.  $\frac{8}{100}$
- G.  $\frac{4}{5}$
- H.  $\frac{3}{4}$
- J.  $\frac{8}{20}$

5. What number does the model below best represent?



- A. 17/20
- B. 75%
- C. 0.80
- D. 16/20

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.							
			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

# ALGEBRAIC REPRESENTATIONS

## QUICK CHECK

Name \_\_\_\_\_ Answer Key \_\_\_\_\_

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

1. Burger Town sells cheeseburgers for \$7.95 per cheeseburger,  $c$ . Which of the following equations best represents the total cost,  $t$ , of a cheeseburger?

A.  $t = 7.95c$

C.  $t = 7.95c + 1.00$

B.  $t = 8.95c$

D.  $t = 7.95 + 1.00c$

2. A standard bathtub drains at a rate of  $y = -12x$ . Which of the following tables best represents the equation?

F.

X	1	2	4	5
Y	0	12	24	36

G.

X	1	3	4	5
Y	12	24	36	48

H.

X	0	2	4	5
Y	0	24	48	72

J.

X	1	2	3	4
Y	12	24	36	48

1.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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8.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3. The table shows the relationship between the distance away from the airport and the cost of a taxi ride to the airport. Which equation best represents the relationship in the table?

NUMBER OF MILES ( $d$ )	5	10	15	20	25
TOTAL COST ( $c$ )	\$12.50	\$25.00	\$37.50	\$50.00	\$62.50

A.  $c = 2.5d$

B.  $d = 2.5c$

C.  $c = \frac{d}{2.5}$

D.  $d = \frac{c}{2.5}$

4. The table below shows the relationship between the number of miles traveled and the number of gallons of gas used. Which of the following statements best represents the relationship?

NUMBER OF MILES	35	70	105	140	175
NUMBER OF GALLONS	1	2	3	4	5

F. The number of miles is the dependent quantity and the number of gallons is the independent quantity.

G. The number of miles and the number of gallons are both dependent quantities.

H. The number of gallons and the number of miles are both independent quantities.

J. The number of miles is the independent quantity and the number of gallons is the dependent quantity.

# PERCENTS

## QUICK CHECK

Name \_\_\_\_\_

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

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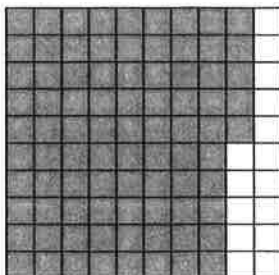
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- G.  $\frac{4}{5}$
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- B. 75%
- C. 0.80
- D.  $\frac{16}{20}$

1. (A) (B) ● (D)																																																																																
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# EXPRESSIONS

## QUICK CHECK

Name \_\_\_\_\_ Answer Key  
Date \_\_\_\_\_ Pd \_\_\_\_\_

1. Which expression is equivalent to  $4(2x + 3)$ ?

- A.  $4 + 2x + 4 + 3$       B.  $8x + 12$       C.  $8x + 3$       D.  $4 + 2x + 12$

2. Amanda simplifies the following expression and shows her work below. What mistake did Amanda make that resulted in an incorrect answer?

$$34 - 8 \div 2 + 3 \cdot 4$$

$$34 - 4 + 3 \cdot 4$$

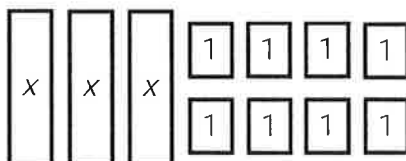
$$34 - 7 \cdot 4$$

$$34 - 28$$

$$6$$

- F. she added before multiplying      G. she subtracted before adding  
H. she multiplied before dividing      J. she added before dividing

3. Which of the following expressions is best represented by the model below?



- A.  $3x + 10$       C.  $3x + 6$   
B.  $3x - 2$       D.  $3x + 8$

4. Four students write algebraic expressions and equations on their white board. Which of the students wrote expressions?

STUDENT 1	STUDENT 2	STUDENT 3	STUDENT 4
$\frac{1}{2}x + 6$	$3x = \frac{2}{3}$	$4 - \frac{3}{4} = x$	$5 - x$

- F. Students 1 and 4      G. Students 2 and 3      H. Students 1, 3, and 4      J. Students 2 and 4

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



# EQUATIONS AND INEQUALITIES

## QUICK CHECK

Name \_\_\_\_\_ KEY  
Date \_\_\_\_\_ Pd \_\_\_\_\_

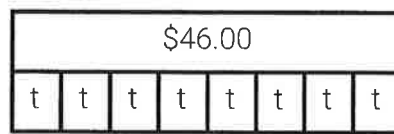
1. Ms. Sung budgets a maximum of \$320 per month for groceries. She grocery shops 4 times a month. Which inequality can be used to find the possible values of  $x$ , the amount she can spend at the grocery store during each shopping trip?

- A.  $4 + x < 320$       B.  $4x \leq 320$       C.  $4x \geq 320$       D.  $4 + x > 320$

2. If  $x = 5$ , then which inequality is true?

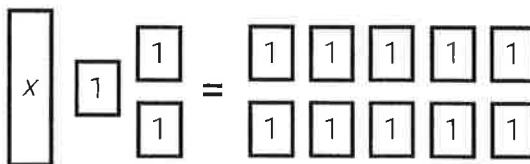
- F.  $2x \geq 12$       G.  $x - 2 < 7$       H.  $2x > 12$       J.  $x - 7 > 2$

3. The entrance fee to the children's museum was a total of \$46.00 for eight tickets. The model below shows the relationship. What was the entrance fee for one ticket?



- A. \$5.75      B. \$5.25      C. \$6.25      D. \$7.00

4. An equation is modeled below using algebra tiles. Which value of  $x$  makes the equation true?



- F.  $x = 7$       G.  $x = 13$   
H.  $x = -7$       J.  $x = -13$

5. Margo must sell at least 38 tubs of cookie dough to support the student council fundraiser. She has already sold 19 tubs of cookie dough. Which inequality best represents the number of tubs of cookie dough Margo still needs to sell?

- A.  $x + 19 > 38$       B.  $x + 19 \leq 38$   
C.  $x + 19 < 38$       D.  $x + 19 \geq 38$

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

				8	.	2	5
+	0	0	0	0		0	0
-	1	1	1	1		1	1
	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

# THE COORDINATE PLANE

## QUICK CHECK

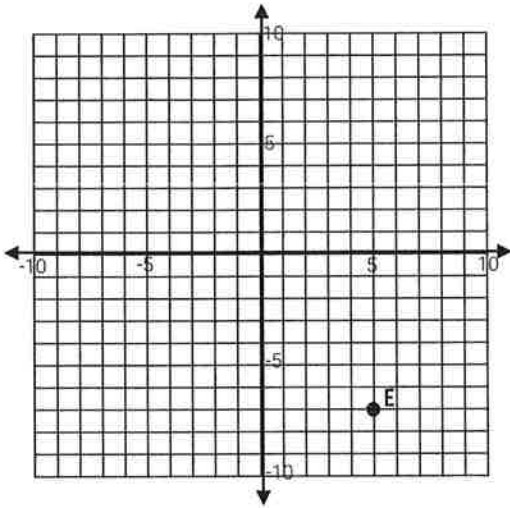
Name \_\_\_\_\_ Answer Key \_\_\_\_\_

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

1. The ordered pair  $(-7, 9)$  can be found in which quadrant?

- A. Quadrant I      B. Quadrant II      C. Quadrant III      D. Quadrant IV

2. Point E is reflected across the y-axis. Which ordered pair best represents E'?



- F.  $(5, -7)$   
 G.  $(-7, 5)$   
 H.  $(-5, -7)$   
 J.  $(5, 7)$

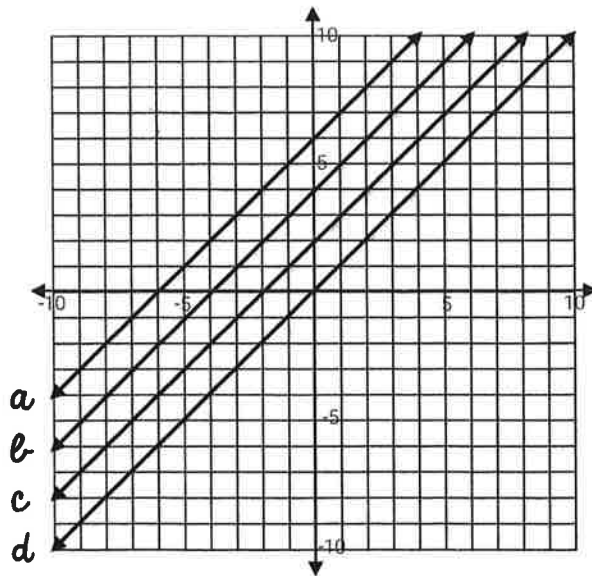
1.	(A)	(B)	(C)	(D)
2.	(F)	(G)	(H)	(J)
3.	(A)	(B)	(C)	(D)
4.	(F)	(G)	(H)	(J)
5.	(A)	(B)	(C)	(D)
6.	(F)	(G)	(H)	(J)
7.	(A)	(B)	(C)	(D)
8.	(F)	(G)	(H)	(J)
9.	(A)	(B)	(C)	(D)
10.	(F)	(G)	(H)	(J)

3. Jeremy plots the points  $(4, 3)$  and  $(4, -6)$  on the coordinate plane. Which of the following statements best describes the points he plotted?

- A. the points form a vertical line segment that measures 9 units  
 B. the points form a horizontal line segment that measures 7 units  
 C. the points form a vertical line segment that measures 7 units  
 D. the points form a horizontal line segment that measures 9 units

4. Which line contains the ordered pair  $(-2, 4)$ ?

- F. line A  
 G. line B  
 H. line C  
 J. line D



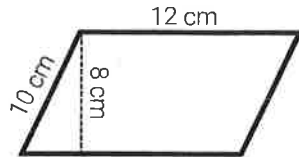
# GEOMETRY AND MEASUREMENT

## QUICK CHECK

Name \_\_\_\_\_ Answer Key \_\_\_\_\_

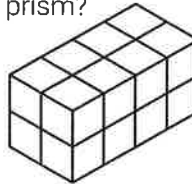
Date \_\_\_\_\_ Pd \_\_\_\_\_

1. A parallelogram is shown below. Which equation best represents the formula for the area of the parallelogram?



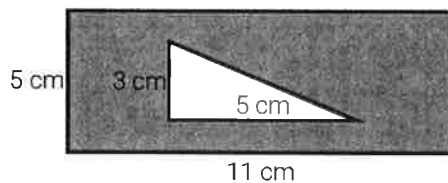
- A.  $A = \frac{1}{2}(8+12) \cdot 10$     B.  $A = \frac{1}{2}(10+12) \cdot 8$     C.  $A = 12 \cdot 8$     D.  $A = 12 \cdot 10$

2. The rectangular prism below is filled with cubic units. Each unit measures  $\frac{1}{3}$  in<sup>3</sup>. How many unit cubes does it take to fill the rectangular prism?



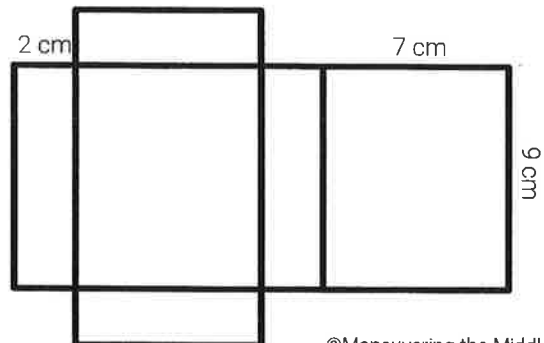
- F. 32    G. 16    H. 8    J. 4

3. A triangle is inscribed in a rectangle, as shown below. What is the area of the shaded region?



- A. 40 cm<sup>2</sup>    C. 47.5 cm<sup>2</sup>  
B. 62.5 cm<sup>2</sup>    D. 22.75 cm<sup>2</sup>

4. The dimensions of the rectangular prism are shown on the net below. Which of the following is closest to the total surface area of the figure?



- F. 85 cm<sup>2</sup>    G. 126 cm<sup>2</sup>  
H. 63 cm<sup>2</sup>    J. 190 cm<sup>2</sup>

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.							
			7	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

# DATA AND STATISTICS

## QUICK CHECK

Name \_\_\_\_\_ Answer Key \_\_\_\_\_  
 Date \_\_\_\_\_ Pd \_\_\_\_\_

1. The number of points in the first five games of the football season are listed below. What is the mean number of points scored?

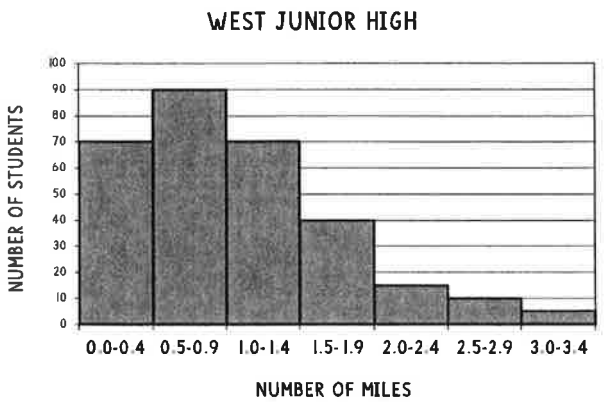
GAME 1	GAME 2	GAME 3	GAME 4	GAME 5
38	29	16	42	33

- A. 33                      B. 31.6                      C. 26                      D. 19

2. Which of the following is likely to have the greatest variability?

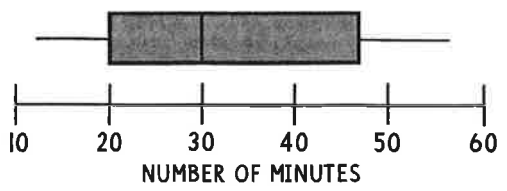
- F. The cost of a piece of candy from a vending machine  
 G. The height of all the students at West Middle School  
 H. The age of all the students in the sixth grade  
 J. The number of days in a month

3. A survey of sixth-grade students measured how many miles they traveled to school. The distance was compiled and displayed in a histogram. Which of the following statements best describes the data?



- A. The data is skewed left, as most students live close to the school.  
 B. The data is symmetrical, as most students live far from the school.  
 C. The data is skewed right, as most students live close to the school.  
 D. The data is symmetrical, as most students live close to the school.

4. Students record the number of minutes they read each day. The box plot shows the summary of the results. Which statement best describes the data?



- F. A quarter of the students read for 20-30 minutes.  
 G. The least number of students read less than 30 minutes.  
 H. Over half the students read for 40 minutes or more.  
 J. The average number of minutes read was 47.

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