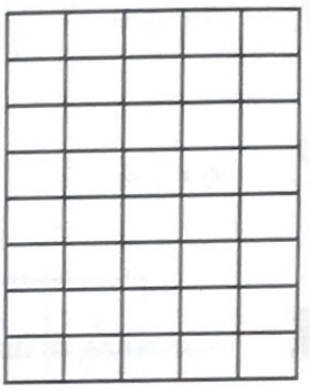
MINUTE JOURNAL

NAME _____

Minute #	Complete	Minute	Complete
50		63	
51		64	
52		65	
53		66	
54		67	
55		68	
56		69	
57		70	
58		71	
59		72	
60		73	
61		74	
62		75	

MINUTE 50

For Problems 1–3, use the grid to the right.

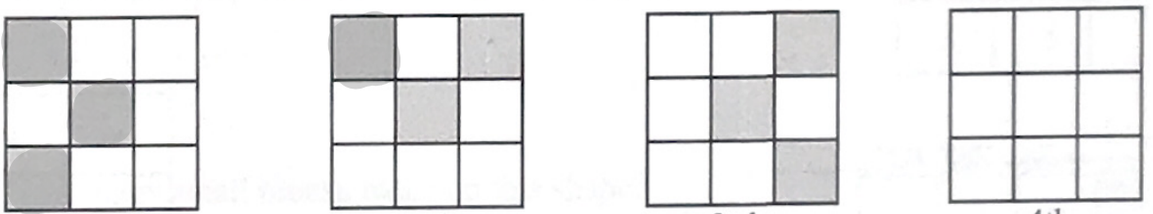


1. Shade 15% of the squares.

2. What percent of the squares will NOT be shaded? _____

3. What is the perimeter of the grid? _____

4. Shade the squares in the 4th shape to complete the sequence.



5. The ages of the Eagle Cadet group members are 4, 6, 7, 7, and 11. What is the mode age? _____

6. What is the mean age of the Cadet group in Problem 5? _____

7. What is the median age of the Cadet group in Problem 5? _____

8. $3 + 6^2 \div 12 =$

9. If $y = 3x - 6$ and $x = 7$, then $y =$ _____.

10. $2^2(3 + 7 - 1) =$

MINUTE 51

Rules of Integers
$(-)(-) = +$
$(-)(+) = -$
$(-) \div (-) = +$
$(-) \div (+) = -$
$(-) + (-) = -$

1. $-7 \cdot -8 =$

2. $-6 \cdot 7 =$

3. According to the chart, a negative plus a negative makes a _____.

4. $(-5)^2 =$

5. If $\frac{12}{n} = 24$, then $n =$ _____.

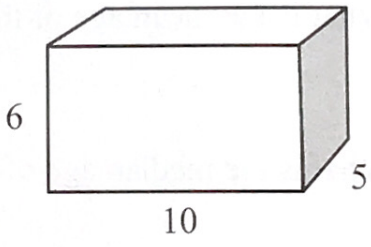
$y = 2x - 3$

x	y
4	
5	7
10	

6. Use the function rule above the chart to fill in the empty boxes.

7. $3.426 \times 10^3 =$

8. What is the volume of the box? _____



9. A bag holds seven red marbles and three blue marbles. If Jill reaches into the bag and pulls out one marble, what is the probability that the marble will be red? _____

10. If all 10 marbles described in Problem 9 were still in the bag, what is the probability that Jill would pull out a blue marble? _____

MINUTE 52

1. $\frac{-45}{9} =$

Rules of Integers
(-)(-) = +
(-)(+) = -
(-) ÷ (-) = +
(-) ÷ (+) = -
(-) + (-) = -

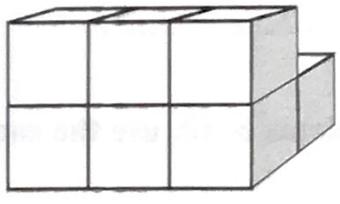
2. $(-5) + (-8) =$

3. $(-2 \cdot -4)^2 =$

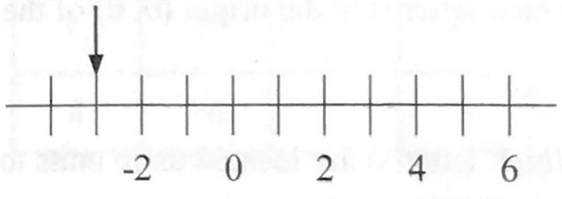
4. Look at the chart and complete the function rule.
$y = 5x +$ _____

x	y
2	13
5	28
3	18

5. How many small blocks make up this shape? _____
(**Hint:** be sure to count the blocks you can't see)



6. What number on the number line is the arrow pointing toward? _____



For Problems 7–10, evaluate if $x = -2$, $y = 3$, and $z = 10$.

7. $xyz =$

8. $2xy =$

9. $\frac{y}{z} =$ _____%

10. $\frac{z}{y+2} =$

NAME:

MINUTE 53

1. If $8n = -40$, then $n =$ _____.

2. If $\frac{n}{4} = 12$, then $n =$ _____.

For Problems 3–5, use the chart to the right.

y_1	y_2	x_1	x_2
6	12	3	5

3. $y_2 - y_1 =$

4. $x_2 - x_1 =$

5. $\frac{y_2 - y_1}{x_2 - x_1} =$

For Problems 6–10, use the coordinate grid to the right.

6. Which letter is at the origin (0, 0) of the grid? _____

7. Which letter(s) are located three units to the right of the origin? _____

8. Which letters are located above the origin? _____

9. To go from point A to point B you would have to go _____.
   a. NE **b.** SE **c.** SW **d.** NW

10. Is there a letter located four units left of the origin and down two units?
    Circle: Yes or No

MINUTE 54

Rules of Integers
(-)(-) = +
(-)(+) = -
(-) ÷ (-) = +
(-) ÷ (+) = -
(-) + (-) = -

1. $3 + (-4)(-3) - 5 =$

2. $\dfrac{(-5) + (-13)}{6} =$

3. If $-7m = -28$, then $m =$ _____.

4. Look at the chart and complete the function rule.

$y = x^2 +$ _____

x	y
1	2
2	5
5	26

5. Using the chart in Problem 4, if $x = 10$, then $y =$ _____.

For Problems 6–8, use the chart to the right.

y_1	y_2	x_1	x_2
4	10	2	5

6. $y_2 - y_1 =$

7. $x_2 - x_1 =$

8. $\dfrac{y_2 - y_1}{x_2 - x_1} =$

9. Put the numbers {10, -10, 5, -5, 0} in ascending (smallest to greatest) order.

_____

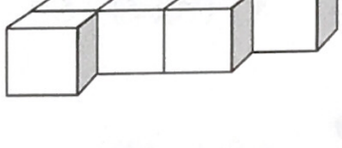
10. Put the numbers $\{-5, 0, 3^2, (-2)^2\}$ in descending (greatest to smallest) order.

_____

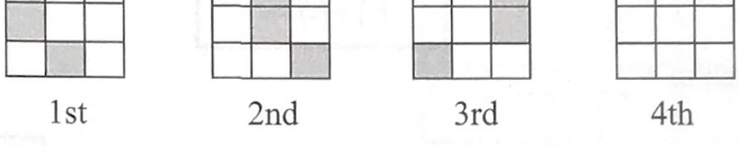
NAME:

MINUTE 55

1. How many blocks are in the shape to the right? _____

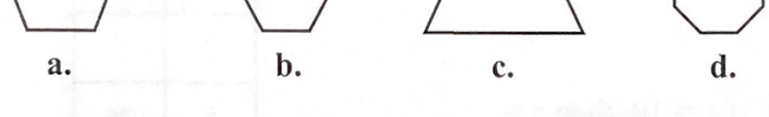


2. Shade the squares in the 4th shape to complete the sequence.



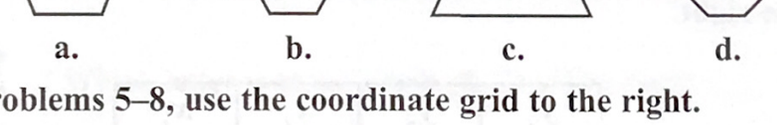
1st 2nd 3rd 4th

3. Shade the octagon.



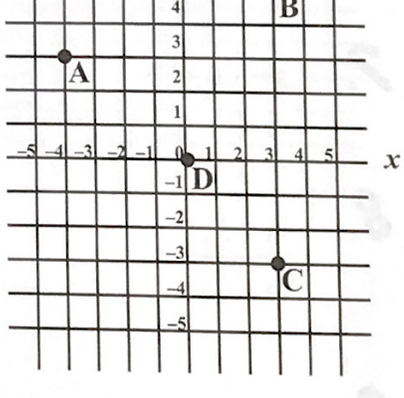
a. **b.** **c.** **d.**

4. Shade the trapezoid.



a. **b.** **c.** **d.**

For Problems 5–8, use the coordinate grid to the right.



5. Which letter is at the origin (0, 0) of the grid? _____

6. The coordinates of point B are (3, 5). What are the coordinates of point C? _____

7. What are the coordinates of point A? _____

8. To go from point C to point A, you have to go _____.
a. NE **b.** SE **c.** SW **d.** NW

For Problems 9–10, use > , <, or = to complete.

9. $(-8)(-5)$ _____ $(9)(-8)$

10. $\frac{(-6)^2}{4}$ _____ $\sqrt{(-4)(-25)}$

MINUTE 56

1. Use •, +, –, or ÷ to complete: 5 ☐ 12 ☐ 3 = 9

2. If $\left[\frac{3}{13}\right]\left[\frac{a}{4}\right] = \frac{15}{52}$, then $a =$ _____.

3. If $36 = 2^x \cdot 3^x$, then $x =$ _____.

4. Write .01212… using bar notation. _____

5. If you multiply the number ____ times itself and add 1, you get 37.

6. Write $10\frac{3}{4}$ as an improper fraction. _____

For Problems 7–10, circle *True* or *False*.

7. Railroad tracks are a good example of perpendicular lines. True or False

8. (negative) × (negative) × (negative) = positive. True or False

9. The fraction $\frac{2}{3}$ is closer to $\frac{1}{2}$ than it is to 1. True or False

10. Trapezoids, squares, and rectangles all have four sides. True or False

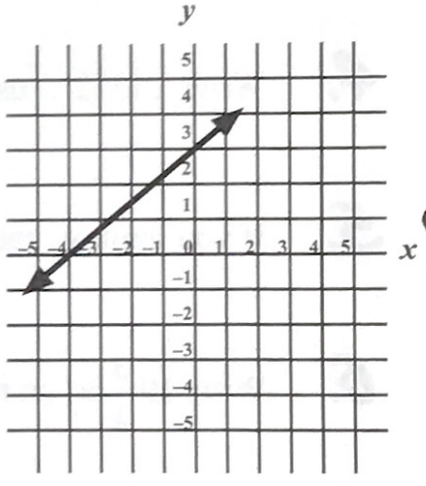
MINUTE 57

1. $2(-5 + 3 \cdot 4) =$

2. If $3n - 2 = 10$, then $n =$ _____.

3. If $40 = 2^x \cdot 5$, then $x =$ _____.

For Problems 4–6, use the coordinate grid to the right.



4. As you move from left to right, the line on the grid:
Circle: goes up goes down is level

5. Where does the line cross the y-axis? _____

6. Where does the line cross the x-axis? _____

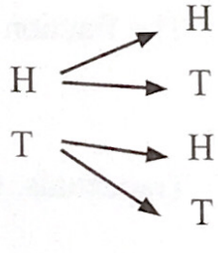
7. Find the next letter and number in the series: A3, D6, G9, _____.

8. Look at the chart and complete the function rule.
$y =$ ___ $x + 2$

x	y
1	4
2	6
3	8

9. Using the chart in Problem 8, if $x = 10$, then $y =$ _____.

10. Ali flips a coin two times. The possible results are shown to the right. List the four possible outcomes for two flips. Two have been done for you.



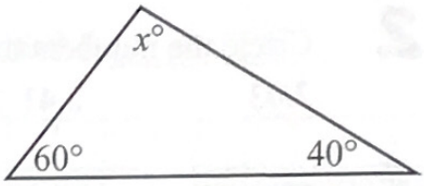
HH, HT, _____, _____.

MINUTE 58

1. Use + or – to complete. (3 ☐ 6) ☐ 12 = 9

2. $(-3)^3 =$

3. If all the angles of a triangle total 180°, then angle x in this triangle is _____.



4. Martin folds a sheet of paper in half, then in half again, and in half yet again. When he unfolds it, the paper is divided into _____ sections.

5. This letter **H** has _____.

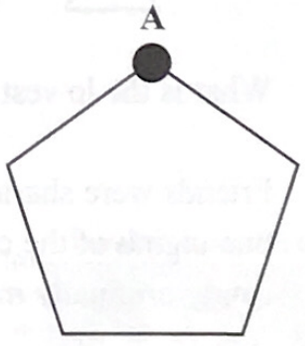
a. parallel lines **b.** perpendicular lines **c.** both

6. A is to **A**, as ☐ is to _____.

a. ☐ **b.** ☐ **c.** ☐ **d.** ☐

7. If point A, one of the vertices of a pentagon, is connected to each other vertex in the pentagon, _____ triangles will be formed.

a. 2 **b.** 3
c. 4 **d.** 5



For Problems 8–10, evaluate if $a = 4$, $b = -5$, and $c = 2$.

8. $-b =$

9. $\frac{ab}{c} =$

10. $a + bc =$

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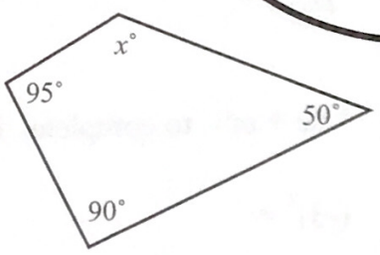


1. If the angles of a four-sided shape total 360°, then angle x is _____.

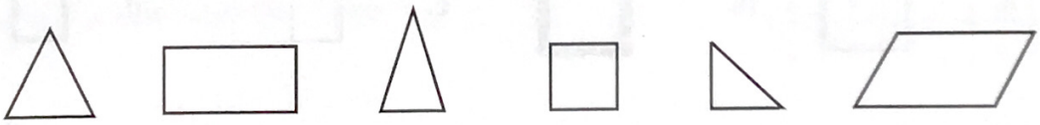
2. Circle the numbers that are greater than 2, but less than 2.4.
   2.03 2.41 1.99 2.22 3.1

3. The only even prime number is _____.

4. 16 weeks, 2 days is the same as _____.
   a. 105 days **b.** 126 days **c.** 114 days **d.** 88 days

5. Leah is dealing cards. She deals a king, then a queen, then a king. The next card to be dealt will be:
   a. queen **b.** king **c.** can't tell **d.** ace

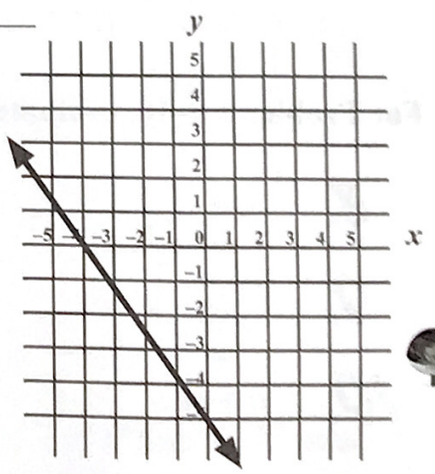
6. What is the pattern in this sequence? _____



7. What is the lowest composite number with the factors of 2, 3, and 4? _____

8. Friends were sharing a bag of candy. Mike ate one-fourth of the candy. Shelby ate one-eighth of the candy originally in the bag. Then Shelby's dog ate one-half of the candy originally in the bag. How much candy remains? _____

For Problems 9–10, use the graph to the right.



9. Where does the line cross the y–axis (y–intercept)? _____

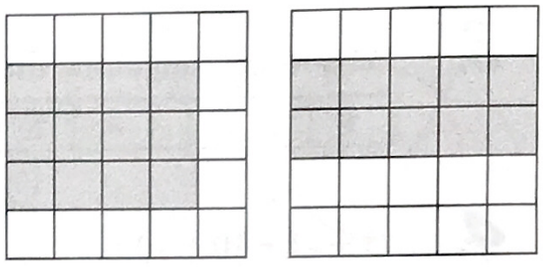
10. What is the x-intercept? _____

MINUTE 60

1. You would most likely measure the width of a swimming pool in:
   a. cm **b.** m **c.** mm **d.** km

2. Write the smallest possible number using the digits 4, 2, 8, 9, and 1. _____

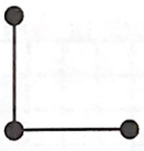
3. Do the shaded shapes to the right have the same perimeter? Circle: Yes or No



4. $(-8)^2 - 5 =$

5. Which shape below shows an obtuse angle? _____

a.



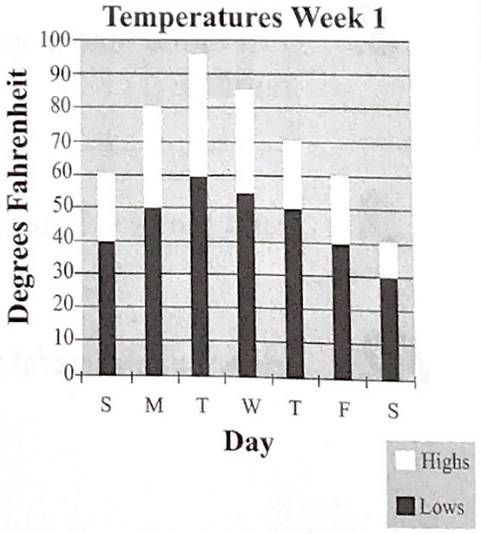
b.

c.

6. Complete the sequence: 4.8, 5.4, 6.0, _____, _____.

7. Circle three numbers below that have a sum of 7.
   -6 3 5 0 8

For Problems 8–10, use the graph to the right.



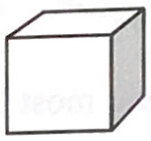
8. Which day of the week was the warmest? _____

9. Which day of the week had the narrowest gap between the high and low temperatures? _____

10. Which of these would be closest to the mean high temperature for the week?
    a. 90° **b.** 40°
    c. 70° **d.** 80°

MINUTE 61

1. If the area of one side of this cube is $25cm^2$, what is the area of the whole surface of the cube? _____



2. Fill in the missing number: $3 \cdot \square = 1.8$

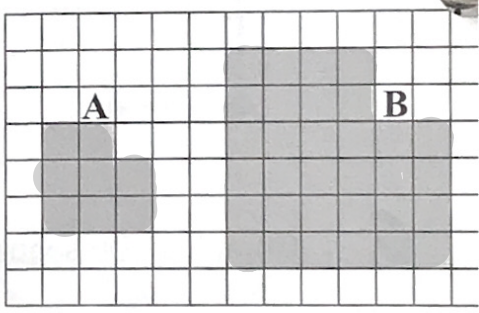
3. What is the sum of the first four composite numbers in the list below? _____

1	2	3	4	5	6	7	8	9	10

4. $-5 + -7 + 10 + 10 =$

5. If $-3(4 + a) = -15$, then $a =$ _____.

6. The length of each side of shape A has been doubled to create shape B. This means that the area of shape B is _____.



a. doubled **b.** three times bigger
c. four times bigger **d.** six times bigger

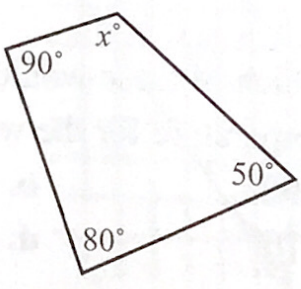
7. A number is between 20 and 30 and is three times the sum of its digits. What is the number? _____

8. Fill in the blanks using the numbers 7, 6, 2, 9, and 8 to make the smallest possible number.

_____ _____. _____ _____ _____

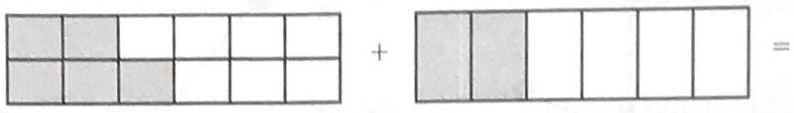
9. Find the next letter and number in the series: A1, B4, C9, D16, _____.

10. In the quadrilateral to the right, angle x equals _____.

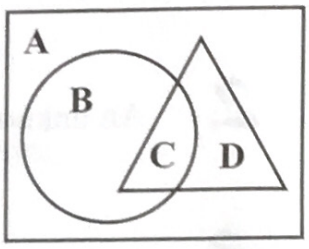


MINUTE 62

1. Add the two shaded areas together. (**Hint:** Each set of shaded and unshaded boxes represents a fraction. Find the sum.)



For Problems 2–4, use the diagram to the right.



2. Which letter is inside the circle and the triangle? _____

3. Which letter is outside the circle but inside the triangle? _____

4. Which letter is outside the circle and the triangle? _____

5. Look at the chart to the right and complete the function rule.
$y = -3x +$ _____

x	y
1	-1
2	-4
3	-7

6. Using the chart in Problem 5, if $x = 12$, then $y =$ _____.

7. Tom has four dollars. Bob has three times as much as Tom. Cindy has twice as much as Bob. How much do they have altogether? _____

8. $\dfrac{4 + (-3)(-2)}{-2} =$

9. Circle the number that is different from the others.

4 6 7 9 12 15

10. Complete the bottom row of numbers on this chart.

			1					
		1	3	1				
	1	3	5	3	1			
1	3	5	7	5	3	1		