

Name Key

Date 5/18 Period     

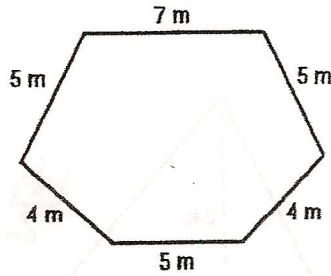
# 4th Nine Weeks Review

\* Taken as Silver Grade

1. What is the perimeter of each figure?

- A. 18 m
- B. 23 m

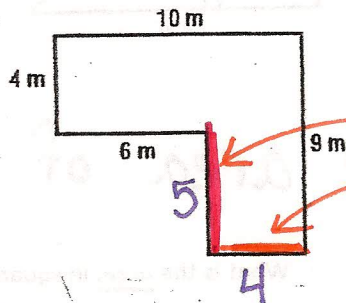
- C. 25 m
- D. 30 m**



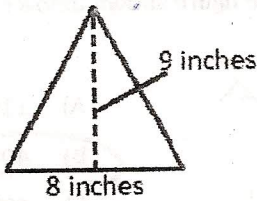
2.

- F. 29 m
- G. 33 m

- H. 34 m
- I. 38 m**



3. Find the area, in square inches, of the triangle below.



$$\frac{bh}{2} = \frac{8 \cdot 9}{2} = 36$$

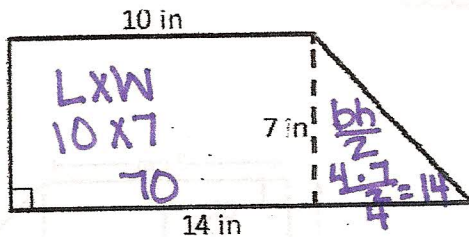
A) 17 inches<sup>2</sup>

B) 26 inches<sup>2</sup>

**C) 36 inches<sup>2</sup>**

D) 72 inches<sup>2</sup>

4. Find the area of the composite figure.



A) 31 in<sup>2</sup>

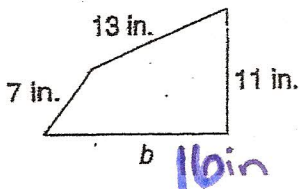
**B) 84 in<sup>2</sup>**

C) 98 in<sup>2</sup>

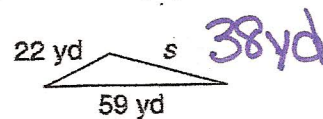
D) 140 in<sup>2</sup>

Find the unknown measure.

5. What is the length of side *b* if the perimeter equals 47 in.?

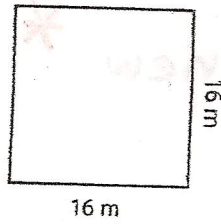


6. What is the length of side *s* if the perimeter equals 119 yd?



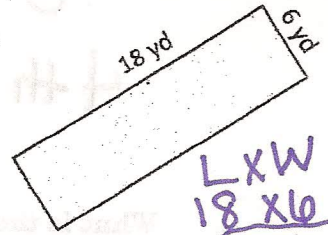
Find the area of each figure below.

5.



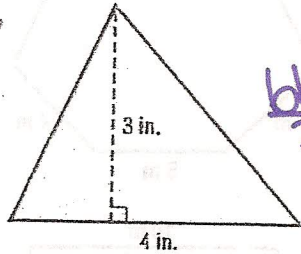
SxS  
16x16  
 $256\text{m}^2$

6.



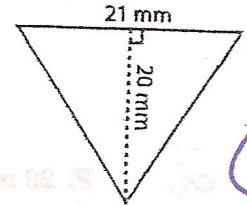
LxW  
18x6  
 $108\text{yd}^2$

7.



$\frac{bh}{2}$   
 $\frac{4 \cdot 3}{2} = 6\text{in}^2$

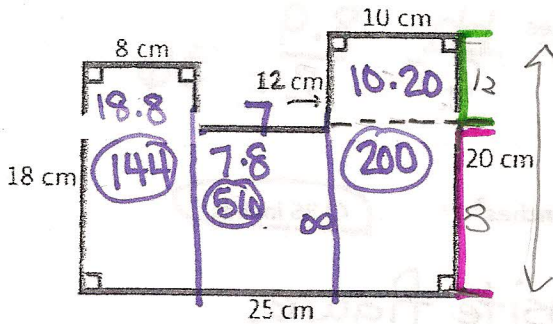
8.



$\frac{bh}{2}$   
 $\frac{21 \cdot 20}{2}$   
 $210\text{mm}^2$

Find the area of the following composite figures.

What is the area, in square centimeters, of the figure shown below?



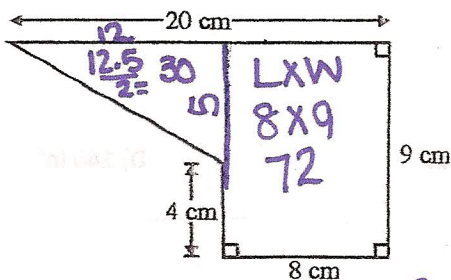
$144 + 56 + 200$

A)  $110\text{cm}^2$

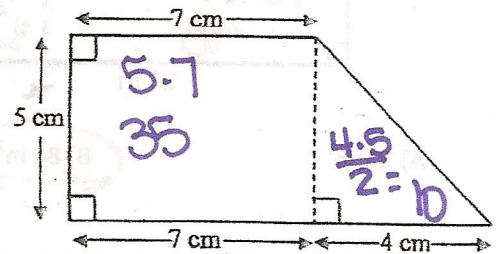
**B)  $400\text{cm}^2$**

C)  $450\text{cm}^2$

D)  $500\text{cm}^2$



$72 + 30 = 102\text{cm}^2$

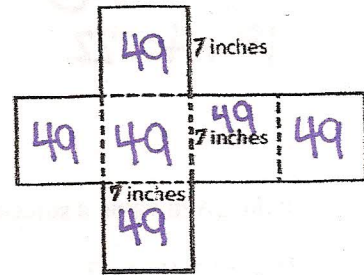


$35 + 10 = 45\text{cm}^2$

26) Use the geometric net below to find the surface area, in square inches, of the cube that will be formed from the net.

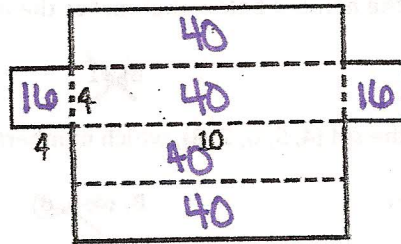
- A)  $84 \text{ in}^2$
- B)  $105 \text{ in}^2$
- C)  $294 \text{ in}^2$
- D)  $343 \text{ in}^2$

$$\begin{array}{r} 49 \\ \times 6 \\ \hline 294 \text{ in}^2 \end{array}$$



27) Use the geometric net below to find the surface area, in square units, of the rectangular prism that will be formed from the net.

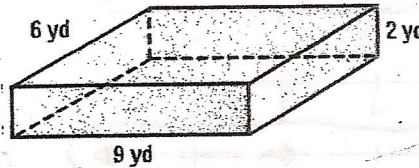
- A)  $72 \text{ units}^2$
- B)  $96 \text{ units}^2$
- C)  $160 \text{ units}^2$
- D)  $192 \text{ units}^2$



$$\begin{array}{r} 40 \\ \times 4 \\ \hline 160 \end{array} + \begin{array}{r} 16 \\ \times 2 \\ \hline 32 \end{array} = 192 \text{ units}^2$$

18.

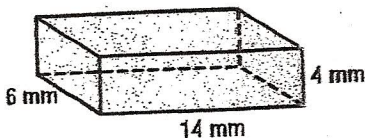
What is the surface area of the rectangular prism?



<u>Top</u>	<u>Front</u>	<u>Side</u>
$9 \cdot 6$	$9 \cdot 2$	$6 \cdot 2$
$54$	$18$	$12$
$\times 2$	$\times 2$	$\times 2$
$108$	$36$	$24$
$168 \text{ yd}^2$		

19.

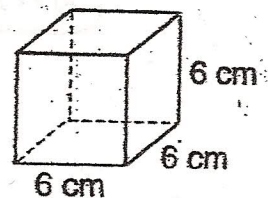
What is the volume of the prism?



$$\begin{array}{l} L \cdot W \cdot H \\ 14 \cdot 6 \cdot 4 \\ \hline 336 \text{ mm}^3 \end{array}$$

20.

What is the volume of the prism?



$$\begin{array}{l} L \cdot W \cdot H \\ 6 \cdot 6 \cdot 6 \\ \hline 216 \text{ cm}^3 \end{array}$$

Write an inequality for each sentence.

- 7. Swim practice will be no more than 35 laps.  $x \leq 35$
- 8. Kevin ran for less than 5 miles.  $x < 5$
- 9. You cannot spend more than 50 dollars.  $x \leq 50$
- 10. The maximum occupancy must be less than 437 people.  $x < 437$
- 11. More than 800 fans attended the opening soccer game.  $x > 800$
- 12. The heavyweight division is greater than 200 pounds.  $x > 200$

Determine which number is a solution of the inequality. SHOW ALL YOUR WORK!

1)  $18 + a > 21$ ; 2, 3, 4

$18 + 4 = 22$

2)  $24 - x \leq 19$ ; 3, 4, 5

$24 - 5$

3)  $7 + r \geq 18$ ; 11, 10, 9

$7 + 11$

Is the given value a solution of the inequality?

7)  $2 + s \geq 10$ ;  $s = 7$

$2 + 7 = 9$  (no)

8)  $14 - r < 9$ ;  $r = 6$

$14 - 6 = 8$  (yes)

9)  $j - 11 \geq 20$ ;  $j = 32$

$32 - 11 = 21$  (yes)

14) Select the number below that makes the inequality true.  $x - 5 > 27$

~~A) 30~~

~~B) 31~~

~~C) 32~~

D) 33

15) Given the set  $\{4, 5, 6, 7, 8\}$ , which number(s) make this inequality true?  $x + 4 \geq 10$

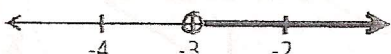
~~A)  $\{4, 5\}$~~

~~B)  $\{4, 5, 6\}$~~

~~C)  $\{5, 6, 7\}$~~

D)  $\{6, 7, 8\}$

16) Graph:  $x \geq -3$



17) The Smith family spent less than \$250 on groceries last month. Write an inequality that represents this amount.

A)  $x < 250$

B)  $x \leq 250$

C)  $x > 250$

D)  $x \geq 250$

Graph each inequality on the number line. Create your own number line below.

20)  $a < 8$

21)  $d \leq -4$

22)  $b \geq 11$

23)  $x \leq 2$

