Feb. 26, 2019
Periods 1,2,4,6

Come In Quietly. Fill in your planner.
Place Net Notes on your desk.

Warm Up-
    Area of Basic Shapes - pg. 48
    Work with your table partner.
    Did you remember to write the formula and
substitute the measurements? We will check these tomorrow.

Check HW with your table partner. Do you both agree with
your answers? Any Questions?

$$A = \frac{1}{2}bh$$

$$\frac{1}{2}(38)(28)$$

$$19 \cdot 28$$

SURFACE AREA- the sum of the areas of all the faces on a three-dimensional figure.

NET- a two-dimensional drawing of a three-dimensional figure, an unfolded illustration

Today's Activity:

You are going to determine the **Surface Area** (SA) of a rectangular prism by measuring and calculating the **Areas** of all the faces.

Materials:

    a rectangular prism

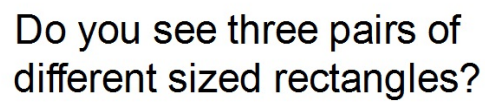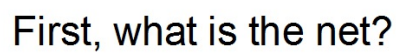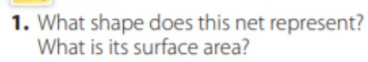   ruler

    paper and pencil, markers

Directions:

1) Identify the name of your prism.
2) Draw a NET of your prism on your white sheet. Remember, the **Net** is defined as a 2-dimensional drawing of a 3-dimensional figure. You figuratively "unfold" the prism, be careful.
3) Label the three dimensions and measure the side lengths.
4) Label the **three congruent pairs of faces**. (Top/Bottom, Front,Back, Side1,Side2)
5) Find the **Areas** of the "faces" of your prism.
6) Use formulas to show work.
7) Find the Surface Area of your prism. Show all formulas and work.

Example: on the back wall.

ADDITIONAL EXAMPLE 2

Angela wants to wrap the present shown. How much wrapping paper will she need? The wrapping paper costs $0.18 per square foot. How much will the wrapping paper cost?

3 ft

2 ft

5 ft

1. What shape does this net represent? What is its surface area?

4 cm

3 cm

3 cm

First, what is the net?

Do you see three pairs of different sized rectangles?

Top/Bottom
Left/Right
Front/Back

Feb. 26, 2019
Period 5

Come In Quietly, place your homework on your desk.
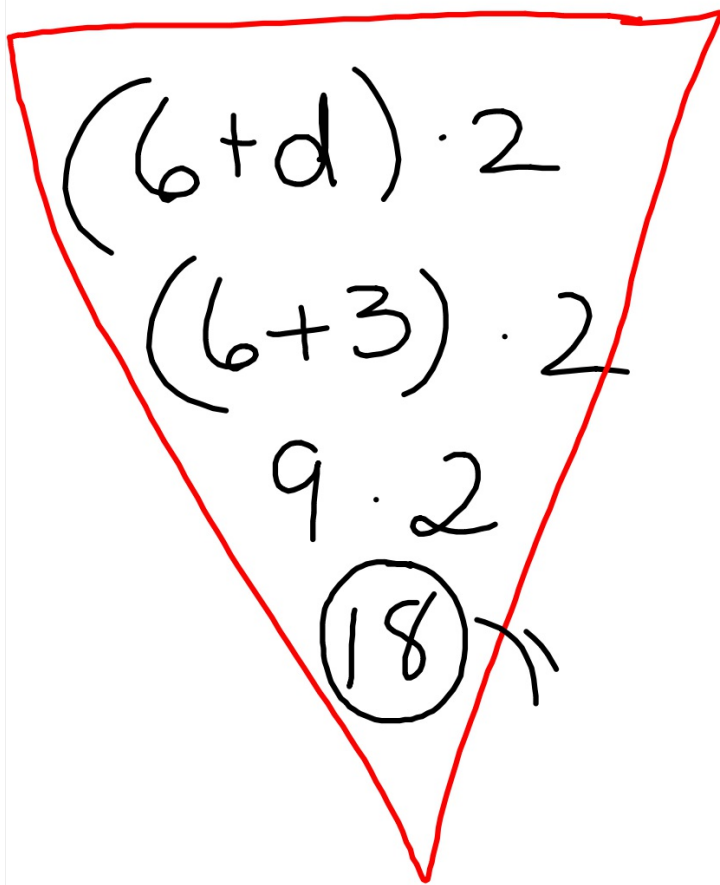
Warm Up- Read Expressions Unit Study Guide carefully

ClassWork -
Check Homework
Use guide to complete pg. 86 "Evaluating Algebraic
    Expressions Notes"

Homework - pg. 85 (Warm Up)

$$(6+d) \cdot 2$$
$$(6+3) \cdot 2$$
$$9 \cdot 2$$
$$\boxed{18}$$

$6b$ when $b=7$

$6(7) = 42$

8) $\dfrac{m}{5}$ when $m = 35$

$$\dfrac{35}{5} = 7$$

10) $10 - (p + 3)$ when $p = 7$

$10 - (7 + 3)$

$10 - 10$

0

1) $\dfrac{r}{2}$

$\boxed{3.14 \cdot r^2}$

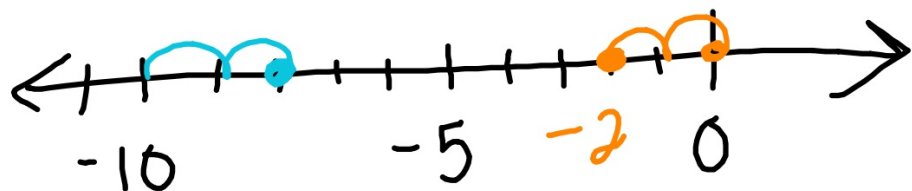$3.14 \cdot 2^2 = 3.14 \cdot 4$

3

4

$3.14 \cdot 3^2 = 3.14 \cdot 9$

$3.14 \cdot 4^2 =$

$\boxed{12.56}$

$\boxed{28.26}$

$\boxed{50.24}$

2)

z	a	2z - a
-4	2	$2(-4) - 2 = \boxed{-8} \boxed{-2} = {}^-10$
0	2	$2(0) - 2 = {}^-2$
4	2	$2(4) - 2 = 6$

←

←————————————————→
      -10   -5   -2 0

4) $5{,}275 + 8.36g$

$5{,}275 + (8.36 \cdot 120)$

$g = \text{\# of gallons } H_2O$

$$
\begin{array}{r}
8.36 \\
\times \quad 120 \\
\hline
1003.2 \\
+5275 \\
\hline
6278.2
\end{array}
$$

1) $X^2 + 2$

To substitute variables with values given, then solve using PEMDAS