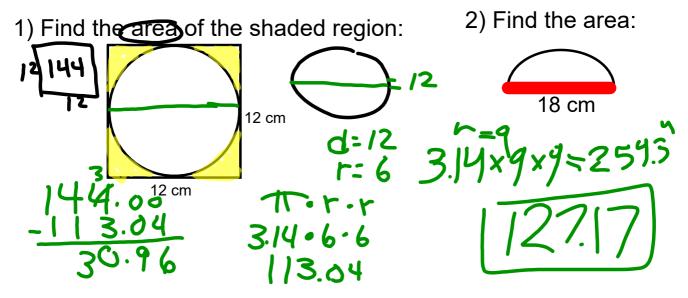
You need out your warm up, agenda, & hw Homework: Surface Area Practice

Warm Up:



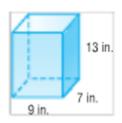
Surface Area of Prisms

The sum of the areas of all the surfaces, or faces, of a three-dimensional figure is the

SURFACE AREA OF A RECTANGULAR PRISM:

SA = 2Ih + 2Iw + 2hw

$$SA = 2lh + 2lw + 2hw$$



$$SA = 2(9 \times 7) + 2(9 \times 13) + 2(7 \times 13)$$
 Multiply first, then add
 $126 + 234 + 182 = 542$

Example 1:

Example 1:

$$2(10\times3)+2(3\times6)+2(10\cdot1)$$

 $3m$ $2(30)+3(18)+2(60)$
 $60+36+120$
 $216m^{3}$

Example 202(11×11)+2(11×11)+2(11×11)
$$(121)+2(121)+2(121)$$

$$(121)+2(121)+2(121)$$

$$(121)+2(121)+2(121)$$

$$(121)+2(121)$$

$$(121)+2(121)$$

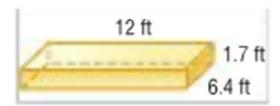
$$(121)+2(121)$$

$$(121)+2(121)$$

$$(121)+2(121)$$

You try!
$$2(6x2) + 2(6\cdot3) + 2(2\cdot3)$$

 $3(12) + 2(18) + 2(6)$
 $3cm$
 $4 + 36 + 12$
 $72cm^2$



Josh is painting a box with the following dimensions: length of 3 inches, width of 7 inches, and height of 9 inches. If he wants to paint all of the sides except the bottom, how much of the box will be painted? (Hint: draw a picture)

$$9 = \frac{1}{3} \cdot 7 + 2(7x9) + 2(9.3)$$

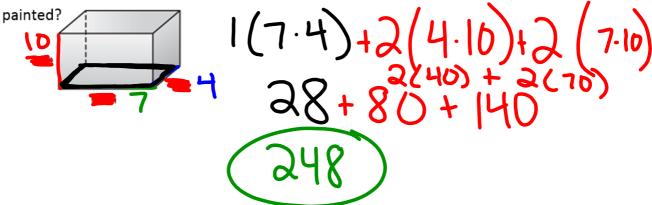
$$2(3.7) + 2(63) + 2(27)$$

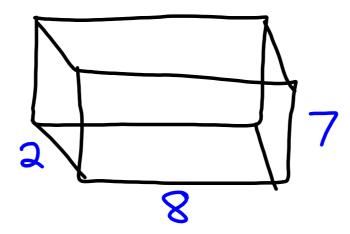
$$2(1+126+54)$$

$$2(1+126+54)$$

$$2(1+126+54)$$

-Madison is painting a toy box with dimensions: length 7 inches, width 4 inches, and height 10 inches. If she wants to paint all of the sides except the top, how much of the box will be





SIT SILENTLY