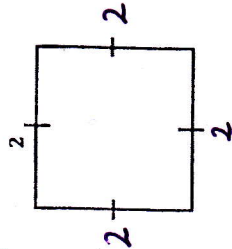


NOTES: AREA DAY 1

EXAMPLES: Find the indicated measures.

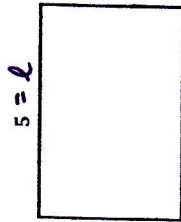
$A_{\text{SQUARE}} = (\text{Side Length})^2$



$A = s^2$
 $A = (2)^2$
 $A = 4$

Length = 2
 Width = 2
 Area = 4

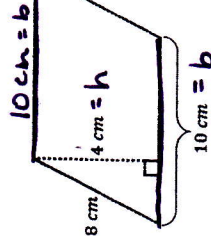
$A_{\text{RECTANGLE}} = (\text{length})(\text{width})$



$A = lw$
 $A = 5(4)$
 $A = 20$

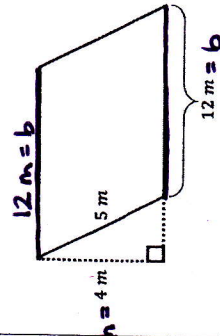
Length = 5
 Width = 4
 Area = 20

$A_{\text{PARALLELOGRAM}} = (\text{base})(\text{height})$



$A = bh$
 $A = 10(4)$
 $A = 40$

Base = 10 cm
 Height = 4 cm
 Area = 40 cm²

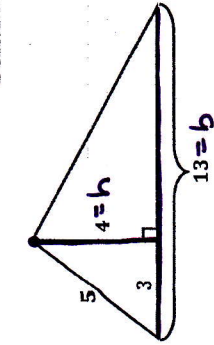


$A = bh$
 $A = 12(4)$
 $A = 48$

Base = 12 m
 Height = 4 m
 Area = 48 m²

* height is \perp distance between bases

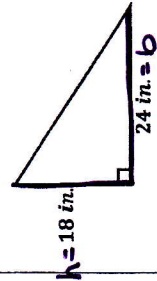
$A_{\text{TRIANGLE}} = \frac{1}{2}(\text{base})(\text{height})$



$A = \frac{1}{2}bh$
 $A = \frac{1}{2}(13)(4)$
 $A = 2(13)$
 $A = 26$

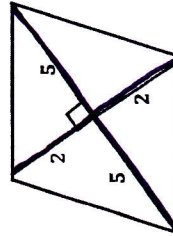
Base = 13
 Height = 4
 Area = 26

$A = \frac{1}{2}bh$
 $A = \frac{1}{2}(24)(18)$
 $A = 12(18)$
 $A = 216$



Base = 24 in
 Height = 18 in
 Area = 216 m²

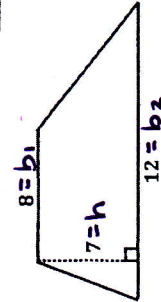
$A_{\text{RHOMBUS}} = \frac{1}{2}(\text{diagonal1})(\text{diagonal2})$



$A = \frac{1}{2}(d_1)(d_2)$
 $A = \frac{1}{2}(4)(10)$
 $A = 2(10)$
 $A = 20$

$d_1 = \frac{4}{}$
 $d_2 = \frac{10}{}$
 Area = 20

$A_{\text{TRAPEZOID}} = \frac{1}{2}h(b_1 + b_2)$



$A = \frac{1}{2}(7)(8+12)$
 $A = \frac{1}{2}(7)(20)$
 $A = 10(7)$
 $A = 70$

$b_1 = \frac{8}{}$
 $b_2 = \frac{12}{}$
 Height = 7
 Area = 70