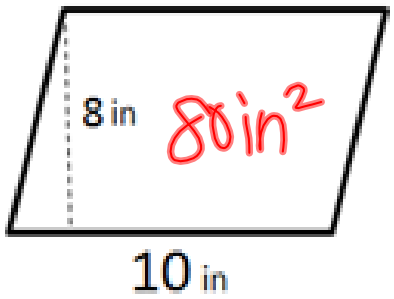
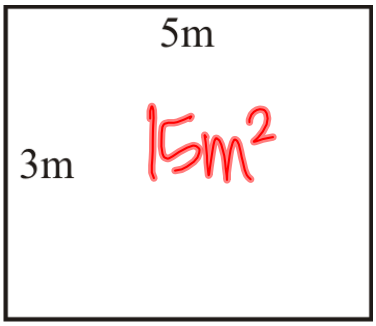
1. What is area?
2. Classify each shape below. $A=bh$
3. How would you find the area of the following figures?



$80in^2$

$36'$ $feet^2$



$15m^2$

Part 1: Area of Special Parallelograms

1. Find the area of a parallelogram whose base is 15x cm and height is 10x cm.

$A=bh$

$A=(15x)(10x)=150x^2\,cm^2$

2. Find the base of a rectangle in which h = 7 in. and A = 28x sq. in.

$A = bh$

$\frac{28x}{7} = \frac{b}{7}$

$b = 4x$ in

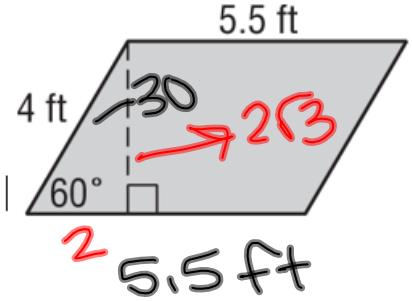
3. Find the height of a rectangle with a base of 3 inches and an area of $(6x^2 + 24x - 6)\text{in}^2$.

$A = bh$

$\frac{6x^2 + 24x - 6}{3} = \frac{3h}{3}$

$h = (2x^2 + 8x - 2)$ in

4. Find the area.



$n, n\sqrt{3}, 2n$

30

$2\sqrt{3}$

2

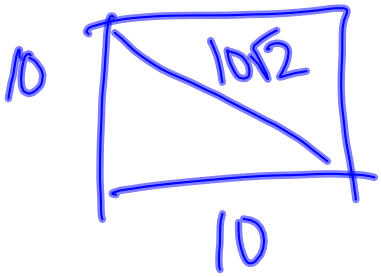
5.5 ft

$A = bh$

$A = 5.5(2\sqrt{3})$

$11\sqrt{3}$ ft^2

6. Find the area of a square in which the diagonal is $10\sqrt{2}$ cm.



$10 \cdot 10 =$

100cm^2