11 - 1
Areas of Parallelograms
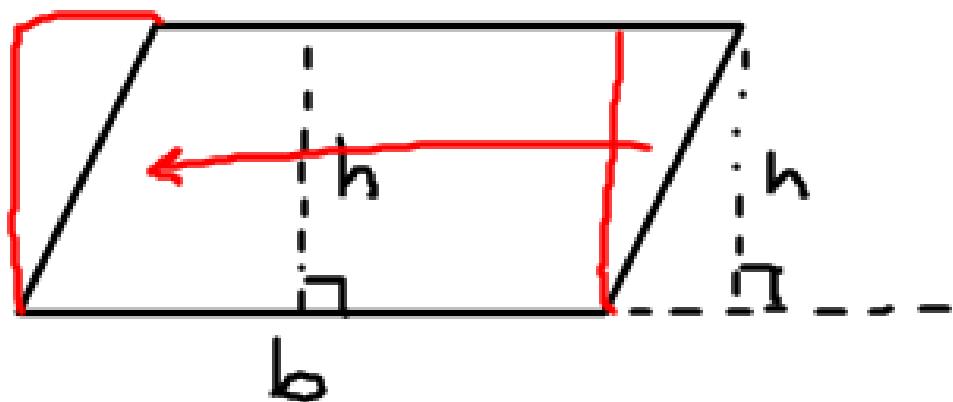
$$A = bh$$

height : $\underline{\perp}$
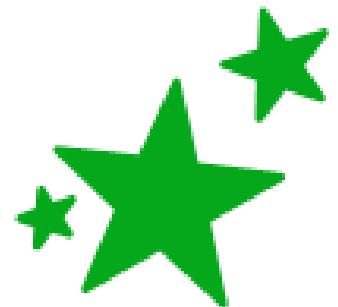
Ex: Find the perimeter and area of ▱ TUVW.
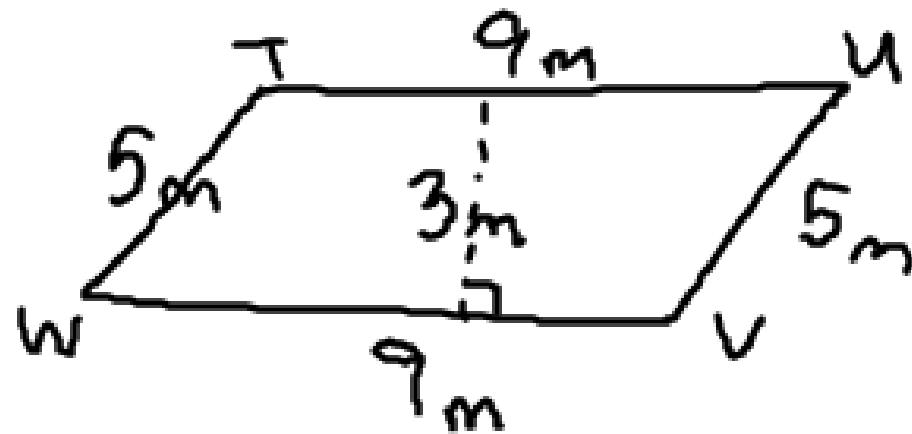
$A: 9 \cdot 3 = \boxed{27 m^2}$

$P: \boxed{28 m}$

Ex: Find the perimeter and area of ▱TUVW.
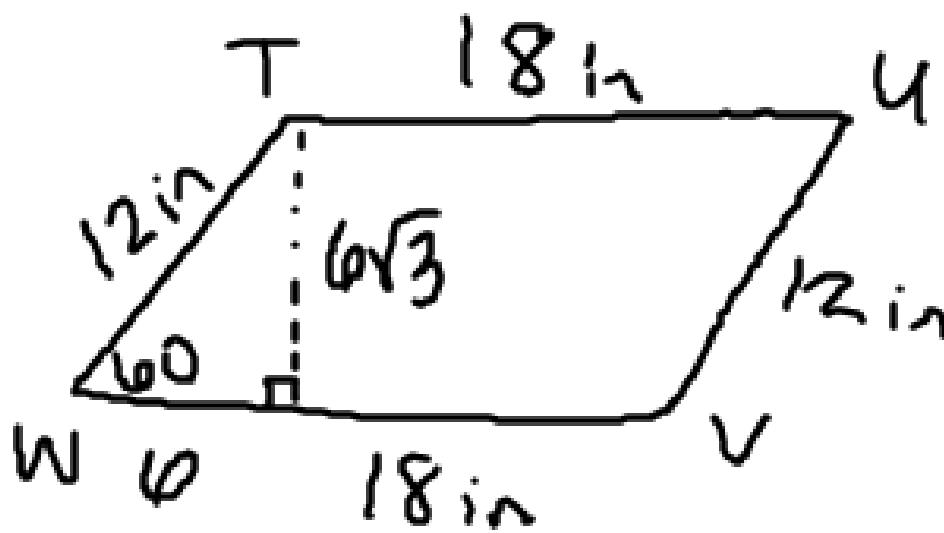
P: 60 in

A: $18 \cdot 6\sqrt{3} = \boxed{108\sqrt{3} \text{ in}^2}$

Homework:

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(9)

30 in

10 in

$5\sqrt{3}$

10

60°

5 30

P: 80 in

A: $30 \cdot 5\sqrt{3} = 150\sqrt{3}$ in^2

10.

A parallelogram with top side $2\sqrt{2}$, left side 4, height $2\sqrt{2}$, slant side 4, bottom side $2\sqrt{2}$, and a $45°$ angle.
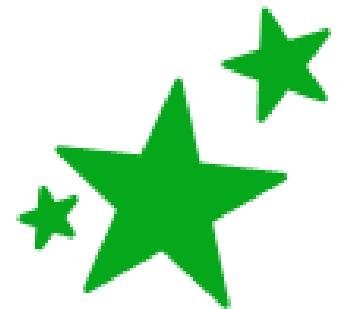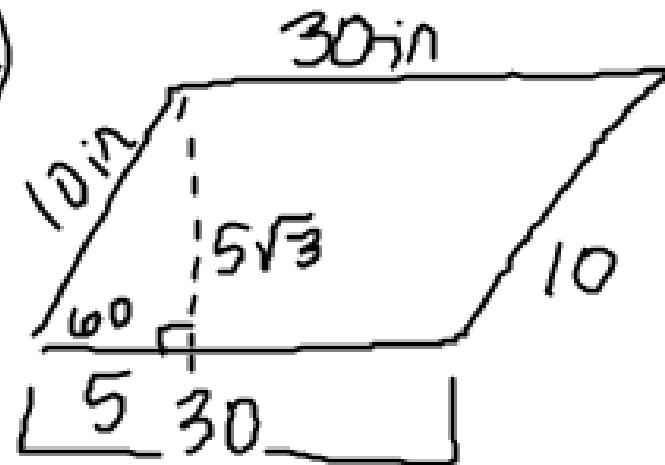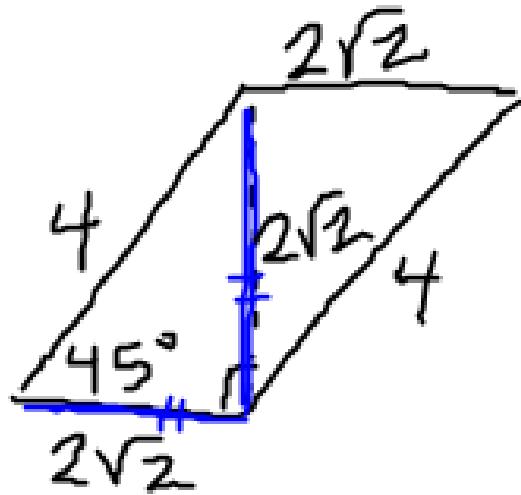
$$\frac{4}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{4\sqrt{2}}{2} = 2\sqrt{2}$$

P: $\boxed{8 + 4\sqrt{2}}$

A: $2\sqrt{2} \cdot 2\sqrt{2} = 4 \cdot 2 = \boxed{8}$