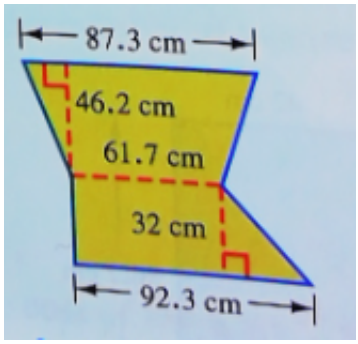
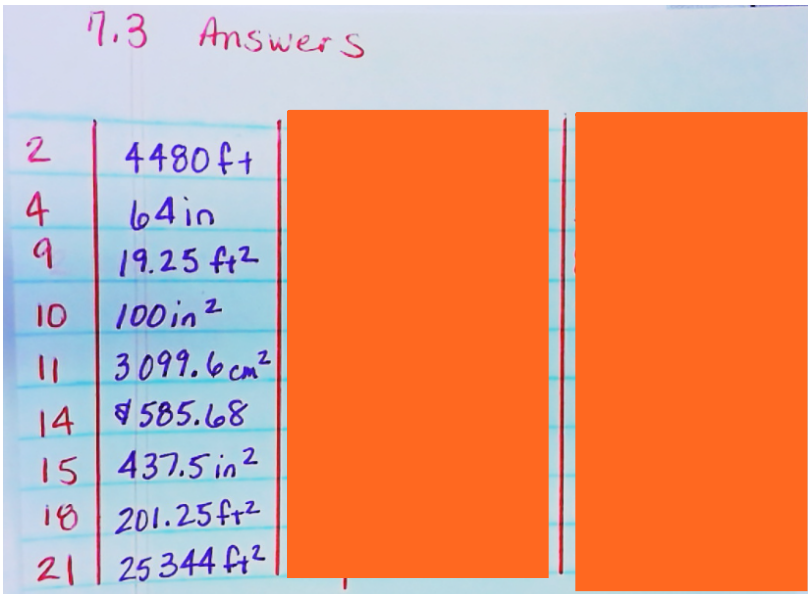
Warm-Up

Find the area of the figure to the right




7.3 Answers
2 4480 ft
4 64 in
9 19.25 ft²
10 100 in²
11 3099.6 cm²
14 585.68
15 437.5 in²
18 201.25 ft²
21 25344 ft²

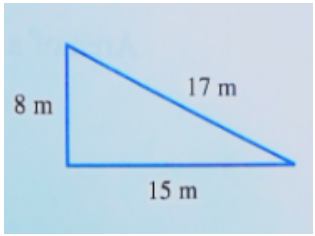
7.4 Triangles

Definition → 3 sided figure

Perimeter of Triangle Formula

P = sum of all sides

Ex 1 Find the perimeter

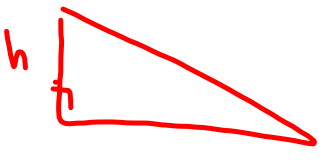


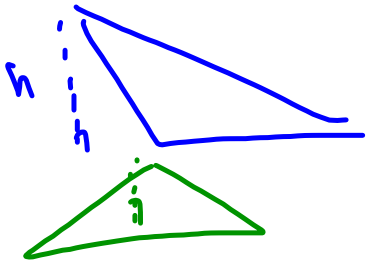
$P = 8 + 17 + 15$

$P = 40m$

Area of Triangle Formula

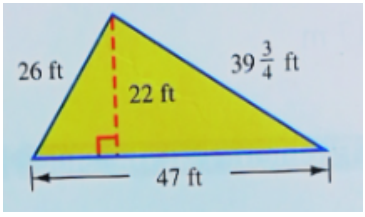
$A = \frac{1}{2} \cdot b \cdot h$





Ex 2 Find the Area of Triangles

a)



$A = \frac{1}{2} \cdot b \cdot h$

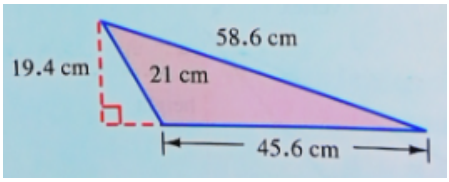
$\frac{1}{2}(47)(22)$

$(47)(11)$

$A = 517 \text{ ft}^2$

$2\overline{)199}$ 9.7

b)

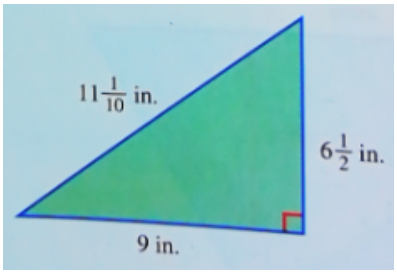


$A = \frac{1}{2}(19.4)(45.6)$

$(9.7)(45.6)$

$A = 442.32 \text{ cm}^2$

c)



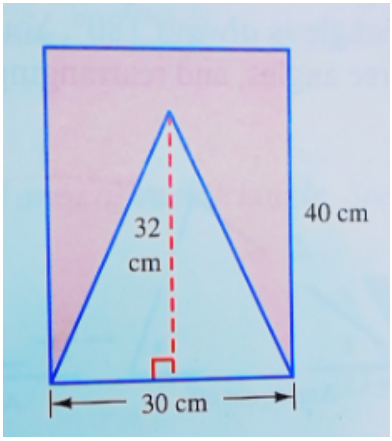
$A = \frac{1}{2}(9)(6.5)$

$(4.5)(6.5)$

29.25 in^2

Ex 3 Using Concept of Area

Find the area of the shaded region



① $A = b \cdot h$

$1200\ cm^2$

② $A = \frac{1}{2} b h$

$480\ cm^2$

$1200 + 480 = 720\ cm^2$

Ex 4 Applying the Concept of Area

The DOT cuts triangle signs out of rectangular pieces of metal using the measurements above. If the metal costs $0.02 per square cm, how much does the metal cost for the sign? What is the cost of the metal not used?

$480 \times 2 = 960$

$\$19.90$