

Area = base x height  
height must be perpendicular to base

Soh Cah Toa  
 $\sin 60 = \frac{x}{20}$   
 $20 \sin 60 = 17.3$   
 Example  
 $15 \times 10\sqrt{3}$   
 $259.8 \text{ ft}^2$

Find area and perimeter  
70'

Mar 20-11:13 AM

Area =  $\frac{1}{2}bh$

$\sqrt{16^2 + 30^2}$   
 $\sqrt{256 + 900}$   
 $\sqrt{1156}$   
 34  
 $P = 34 + 16 + 30 = 80m$   
 $\sqrt{20^2 - 12^2}$   
 $\sqrt{400 - 144}$   
 $\sqrt{256} = 16$   
 $A = \frac{1}{2} \cdot 16 \cdot 30 = 240m^2$   
 What is the perimeter and area?

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Area = 144 inches squared, find x

$A = bh$   
 $144 = 24x$   
 $6 = x$

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Find x

area = 780 cm squared

$A = bh$   
 $780 = 60x$   
 $13 = x$

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Area = 720 inches squared  
Find x and perimeter

$y = \sqrt{10^2 + 12^2} = 15.6$   
 $z = \sqrt{10^2 + (12+144)^2} = 156.3$   
 $P = 144 + 15.6 + 156.3 = 315.9 \text{ in}$   
 $A = \frac{1}{2}bh$   
 $720 = \frac{1}{2} \cdot 10 \cdot x$   
 $720 = 5x$   
 $144 = x$

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$\sin 45 = \frac{h}{9}$   
 $9 \sin 45$   
 what is the area and perimeter?  
 $h = 4.5\sqrt{2}$   
 or  
 $h = 9 \sin 45$   
 $A = 28 \cdot 6.36 = 178.2 \text{ ft}^2$   
 $P = 9 + 9 + 28 + 28 = 74'$

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Find area and perimeter

$h = \frac{22\sqrt{2}}{2} = 11\sqrt{2}$   
 or  
 $\sin 45 = \frac{x}{22}$   
 $22 \sin 45 = 15.56$

$A = 15.56 \times 26$   
 $A = 404.5 \text{ in}^2$

$P = 26 + 22 + 26 + 22$   
 $P = 96 \text{ in}$

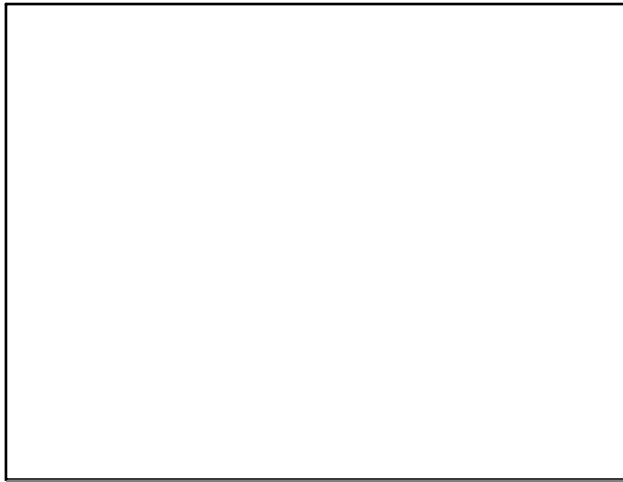
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Find area and perimeter:

$A = 15\sqrt{3} \cdot 20$   
 or  
 $A = 30 \sin 60 \cdot 20$   
 $A = 519.6$

$P = 30 + 20 + 30 + 20$   
 $P = 100$

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Mar 20-10:25 AM