



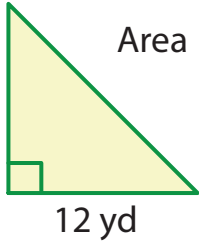
# Finding base / height

Name \_\_\_\_\_

Score \_\_\_\_\_

AT:20

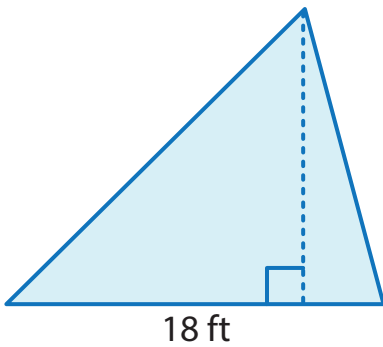
Example : Find the base of given triangle.



$$\begin{aligned} \text{Area} &= \frac{1}{2} \times \text{base}(b) \times \text{height}(h) \\ 72 &= \frac{1}{2} \times 12 \times h && b = 12 \text{ yd}, h = ? \\ 144 &= 12h \\ h &= \frac{144}{12} = \mathbf{12 \text{ yd}} \end{aligned}$$

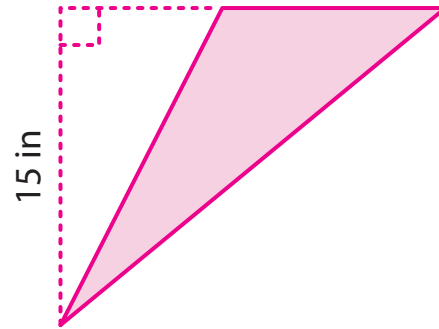
Find the base or height of each triangle.

1) Area = 144 ft<sup>2</sup>



Height =

2) Area = 97.5 in<sup>2</sup>



Base =

1) Area = 84.5 yd<sup>2</sup>

Height = 13 yd

Base =

2) Area = 170 ft<sup>2</sup>

Base = 17 ft

Height =

Complete the table.

Q.No	Base	Height	Area
1)		16 ft	96 ft <sup>2</sup>
2)		22 in	209 in <sup>2</sup>
3)	15 yd		135 yd <sup>2</sup>



# Finding base / height

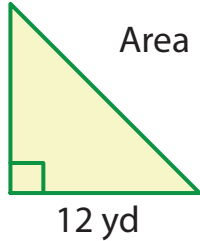
Name \_\_\_\_\_

Score \_\_\_\_\_

## Answer key

AT:20

Example : Find the base of given triangle.



$$\text{Area} = 72 \text{ yd}^2$$

$$\text{Area} = \frac{1}{2} \times \text{base}(b) \times \text{height}(h)$$

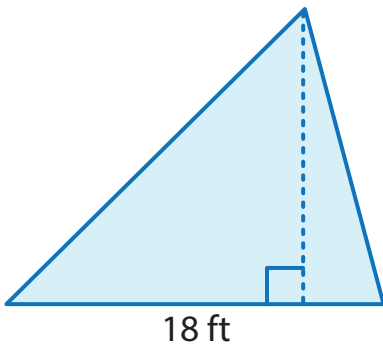
$$72 = \frac{1}{2} \times 12 \times h$$

$$144 = 12h$$

$$h = \frac{144}{12} = \mathbf{12 \text{ yd}}$$

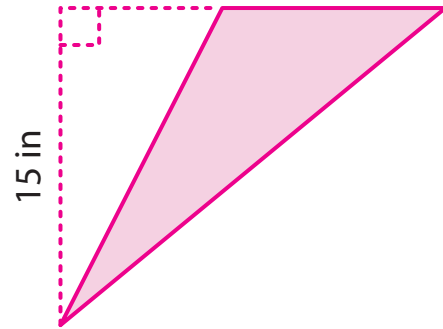
Find the base or height of each triangle.

1) Area = 144 ft<sup>2</sup>



Height = **16 ft**

2) Area = 97.5 in<sup>2</sup>



Base = **13 in**

1) Area = 84.5 yd<sup>2</sup>

Height = 13 yd

Base = **13 yd**

2) Area = 170 ft<sup>2</sup>

Base = 17 ft

Height = **20 ft**

Complete the table.

Q.No	Base	Height	Area
1)	<b>12 ft</b>	16 ft	96 ft <sup>2</sup>
2)	<b>19 in</b>	22 in	209 in <sup>2</sup>
3)	15 yd	<b>18 yd</b>	135 yd <sup>2</sup>