

What's Going On?

Checking In

Minds on

The Basics

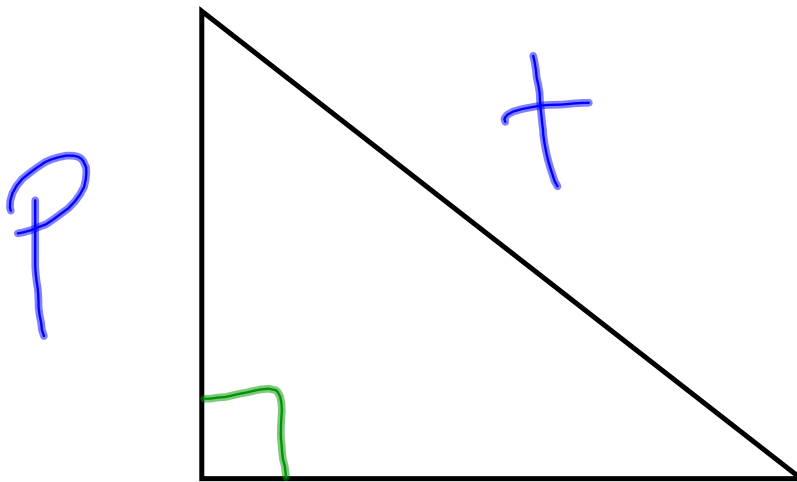
Action!

Perimeter and Area of Composite
Figures

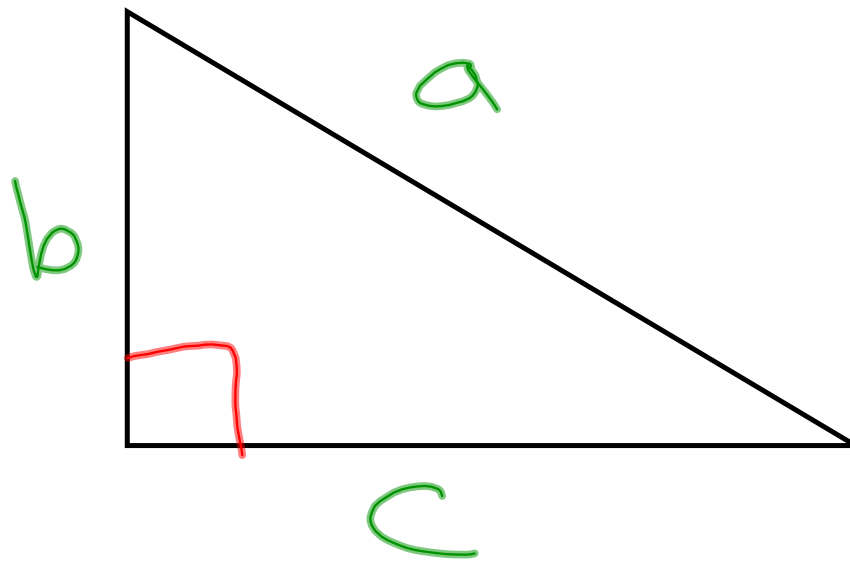
Consolidation

Challenge

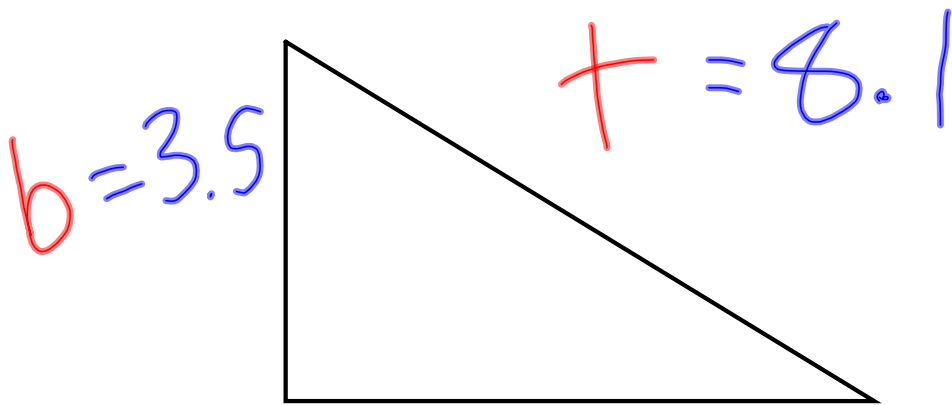
**Learning Goal - I will learn techniques to calculate the
perimeter and area of composite figures.**



$$P^2 = t^2 - S^2$$



$$b^2 + c^2 = a^2$$



$$z^2 = 8.1^2 - 3.5^2$$

$$z^2 = 65.61 - 12.25$$

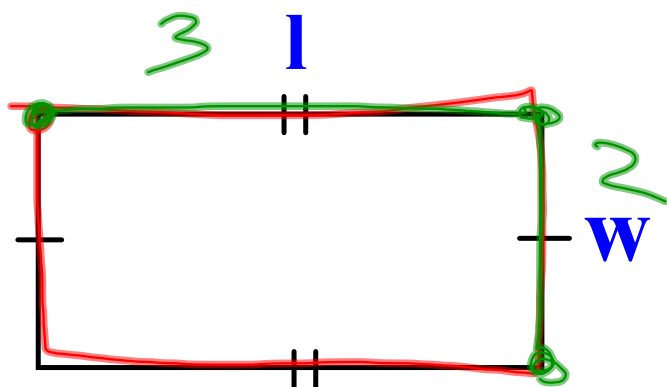
$$\sqrt{z^2} = \sqrt{53.36}$$

$$z = 7.3$$

Minds on

The Basics

What's the Perimeter?

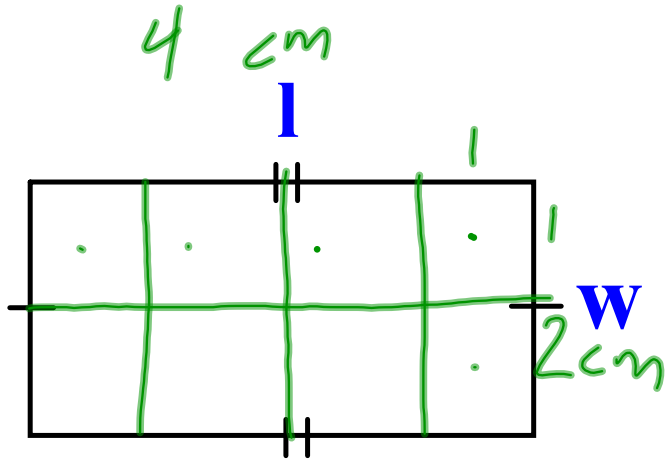


$$P = l + l + w + w$$
$$P = 2l + 2w$$
$$P = 2(l + w)$$

Minds on

The Basics

What's the Area?

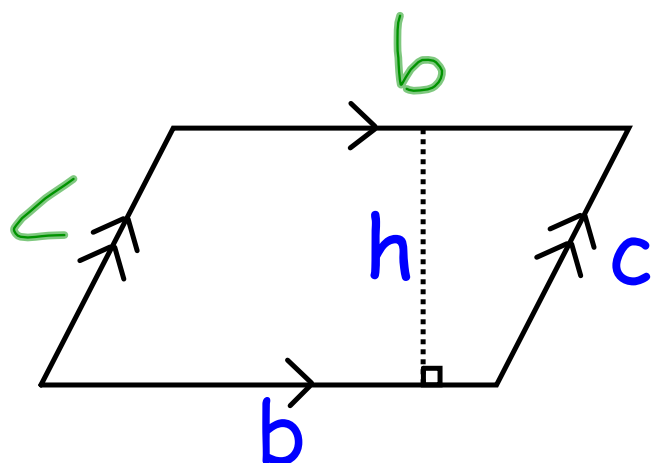


$$A = l \times w$$

Minds on

The Basics

What's the Perimeter?

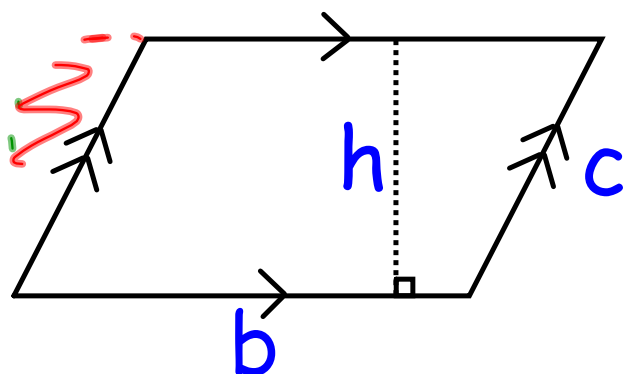


$$P = 2(b + c)$$

Minds on

The Basics

What's the Area?



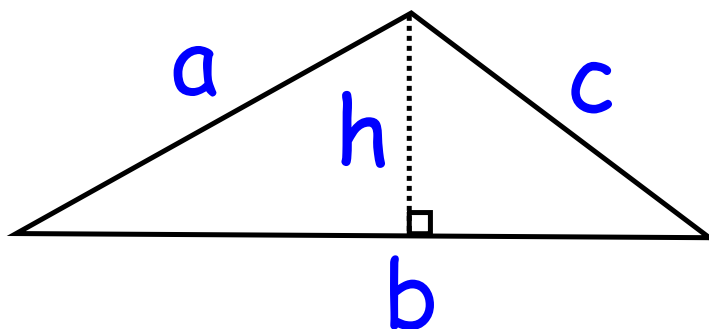
$$A = b \times h$$

Minds on

The Basics

What's the Perimeter?

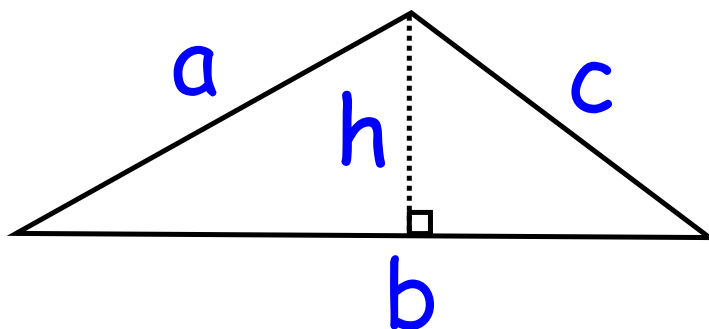
$$P = a + b + c$$



Minds on

The Basics

What's the Area?



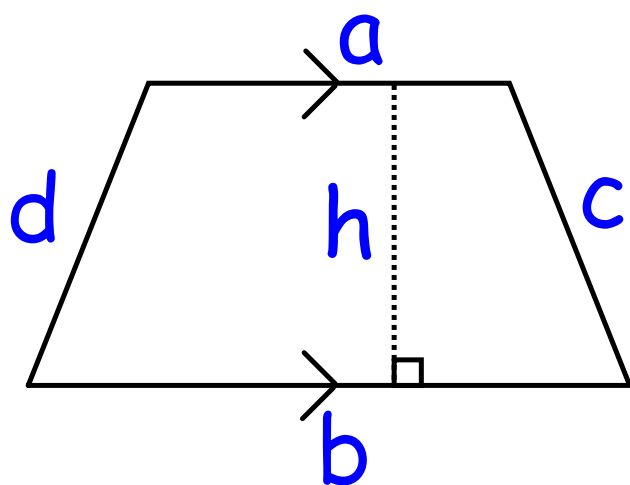
$$A = \frac{b \times h}{2}$$

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

Minds on

The Basics

What's the Perimeter?

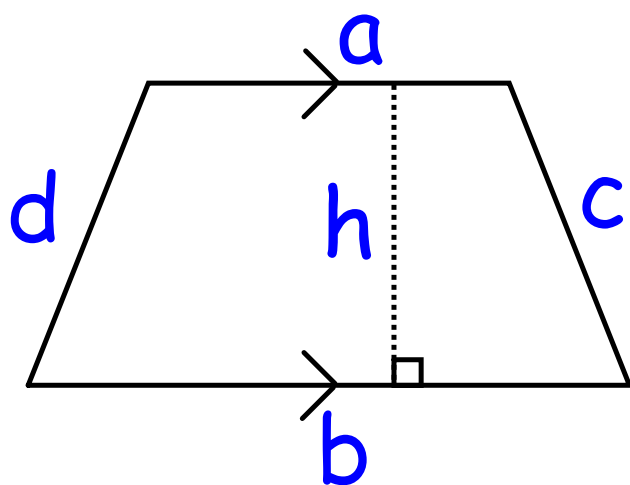


$$P = a + b + c + d$$

Minds on

The Basics

What's the Area?



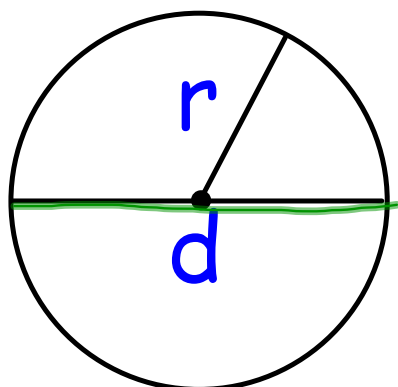
$$A = \frac{(a+b)h}{2}$$

Minds on

The Basics

What's the ~~Perimeter?~~

Circumference



$$C = \pi \times d$$

or

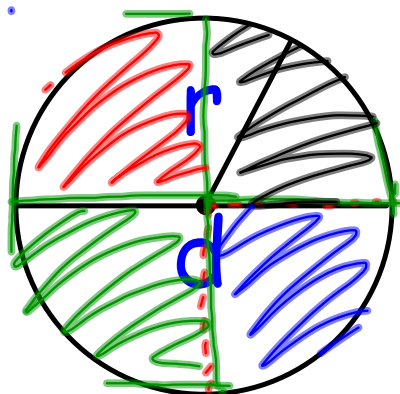
$$C = 2 \times \pi \times r$$

The second equation has red arrows indicating that the '2' and 'r' are multiplied together to form the diameter 'd'.

Minds on

The Basics

What's the Area?



$$A = \pi r^2$$

3.14

$$4r^2$$

Action!

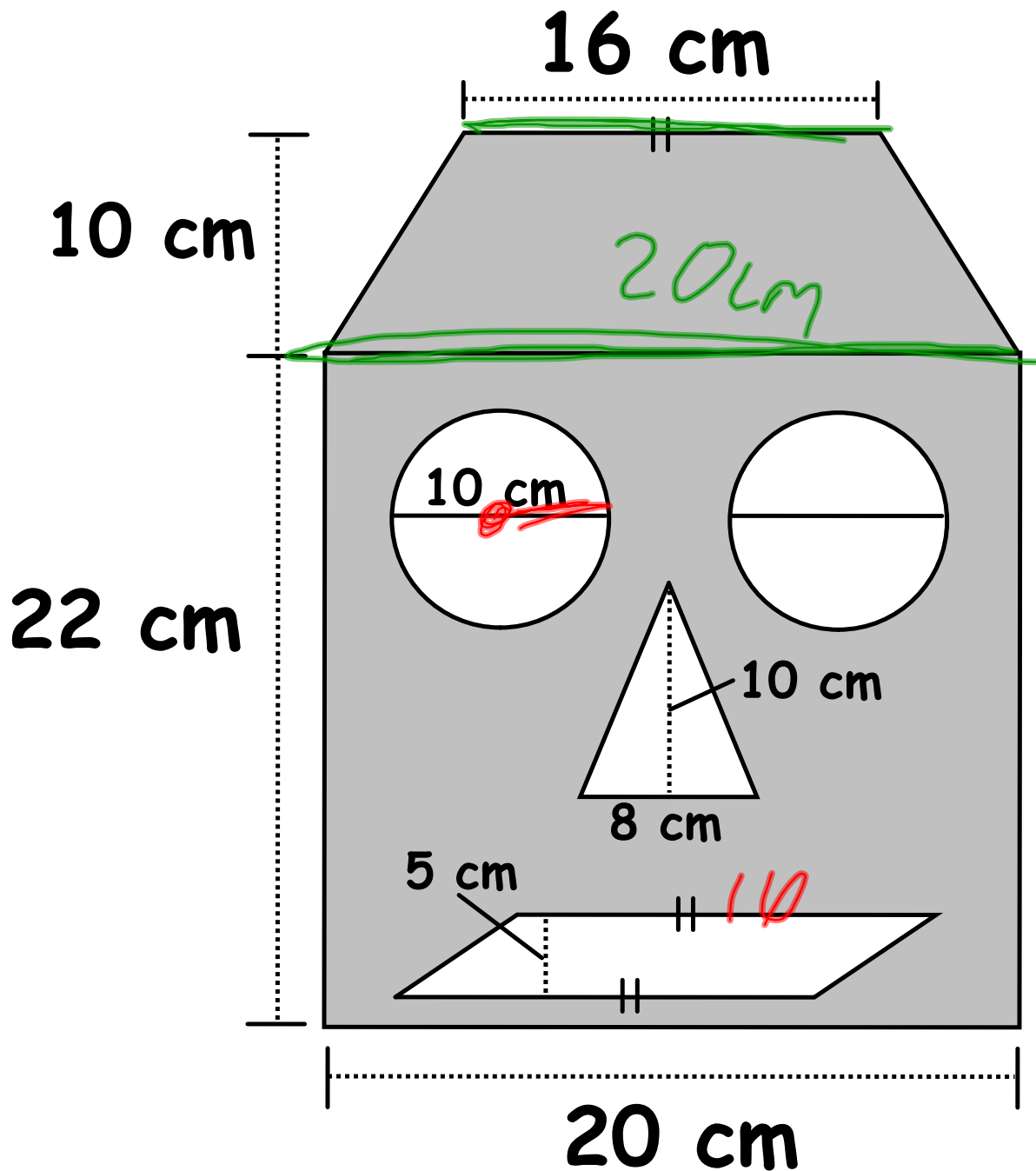
Perimeter and Area of Composite Figures

Shapes made up of several simple shapes are known as composite figures.

Consolidation

Challenge

Determine the area of the composite figure below!



Hat

$$A = \frac{(a+b)h}{2}$$

$$A = \frac{(16+20)10}{2}$$

$$A = \frac{(36)10}{2}$$

$$A = \frac{360}{2}$$

$$A = 180$$

Face

$$A = l \times w$$

$$A = 20 \times 22$$

$$A = 440$$

$$\text{Hat} + \text{Face} = 620$$

Eyes

$$A = \pi r^2$$

$$A = \pi (5)^2$$

$$A = 78.5$$

$$\times 2$$

$$\underline{157}$$

Mouth

$$A = b \times h$$

$$A = 16 \times 5$$

$$A = 80$$

Nose

$$A = \frac{b \times h}{2}$$

$$A = \frac{8 \times 10}{2}$$

$$A = \frac{80}{2}$$

$$A = 40$$

$$\begin{aligned} \text{combined} &= 157 + 80 + 40 \\ &= 277 \end{aligned}$$

$$\text{Total Area} = 620 - 277$$

$$= 343$$



Consolidation

Homework

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1bce, 2bce, 3, 4, 8