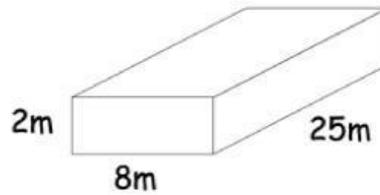


CONSOLIDATE PRACTICE SHEET

Maisie is going to fill an empty swimming pool. She fills it with water at a constant rate of 2500 litres per minute.

$$1\text{m}^3 = 1000 \text{ litres}$$

How long will it take to fill the pool?



Expand and simplify

$$x(8x + 3) - 2x(x - 5)$$

Solve the simultaneous equations

$$y + 1 = 2x$$

$$y = x + 2$$

Expand $4y^2(5y^2 - 2a)$

Ace complete a journey in three stages.
In stage 1 of his journey, he drives at an average speed of 30km/h for 45 minutes.

How far does Ace travel in stage 1 of his journey?

In stage 2 of his journey, Ace drives at an average speed of 50km/h for 2 hours 48 minutes.

Altogether, over all three stages, Ace drives 200 km in 4 hours.

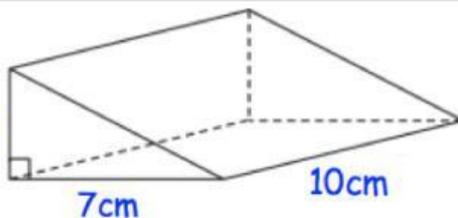
What is his average speed, in km/h, in stage 3 of his journey?

Solve

$$\frac{8x - 1}{2} = 3x + 11$$

Decrease 5400 by 12%

3cm



7cm

10cm

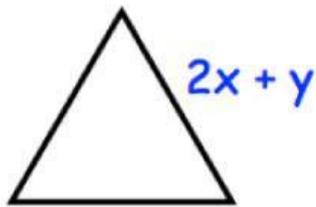
Find the volume of the triangular prism.

Scott has 8 metres of string.
He says, "I need 9 pieces each 0.89 metres long."

Will Scott have enough string?

The height of a sunflower increases by 60% each year.
When planted the sunflower was 40cm tall.

Calculate how tall the sunflower will be in 5 years time.



Shown above is an equilateral triangle with side length $2x + y$.

Find an expression for the perimeter of the triangle.

66% $\frac{13}{20}$ 0.606 $\frac{1}{2}$ $\frac{3}{5}$

Arrange in order of size.
Start with the largest.