Name: _____ 5-a-day Higher

24th February

Corbettmaths

C to directly proportional to the square root of W.

$C \propto \sqrt{W}$

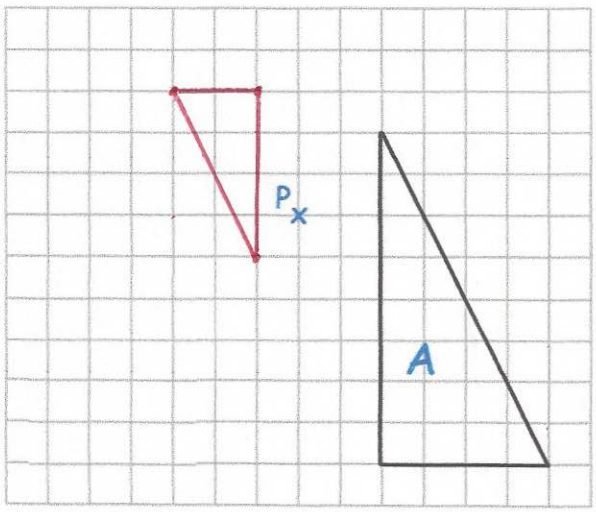
When C = 12 and W = 16 $C = k \times \sqrt{W}$

$12 = k \times \sqrt{16}$

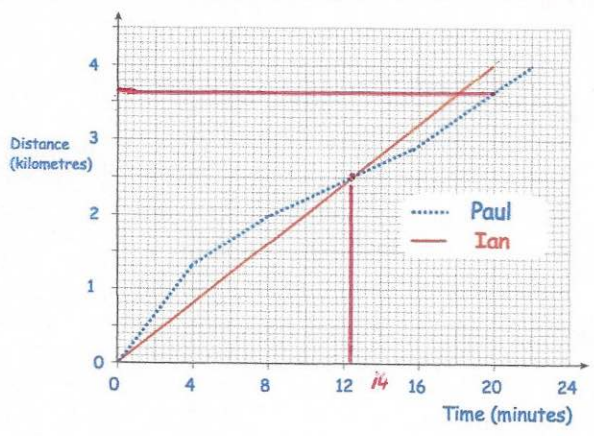
$12 = k \times 4$ $k = 3$

Find C in terms of W.

$C = 3\sqrt{W}$



Enlarge shape A by scale factor $-\frac{1}{2}$, using the point P as centre of enlargement.



Ian ran the race at a steady speed.

What was Ian's average speed?

$S = \frac{d}{t} = \frac{4}{\frac{1}{3}} = 12 km/h$

At what time were both boys level?

12.4 minutes

Who won the race? By how much?

The winner was Ian

by 350 m