

Simplify $\sqrt{8} \times \sqrt{2}$

$$\sqrt{16}$$

$$= 4$$

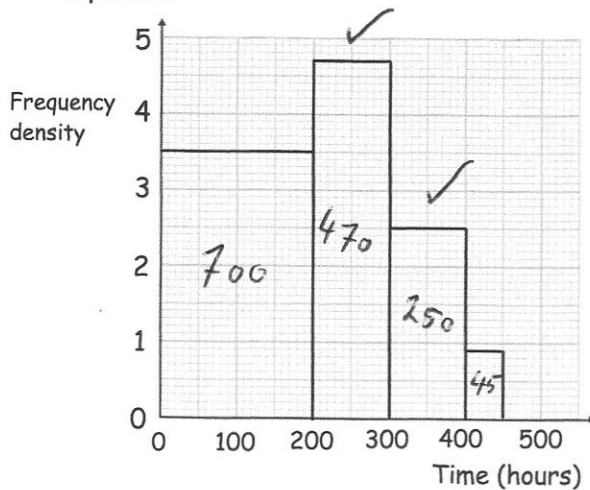
Simplify $(\sqrt{2})^3$

$$\sqrt{2} \times \sqrt{2} \times \sqrt{2}$$

$$= \sqrt{8} \quad (\sqrt{4} \times \sqrt{2})$$

$$= 2\sqrt{2}$$

The histogram below shows information about the number of hours flown by some pilots.



45 pilots flew more than 400 hours.

How many pilots flew for under 200 hours?

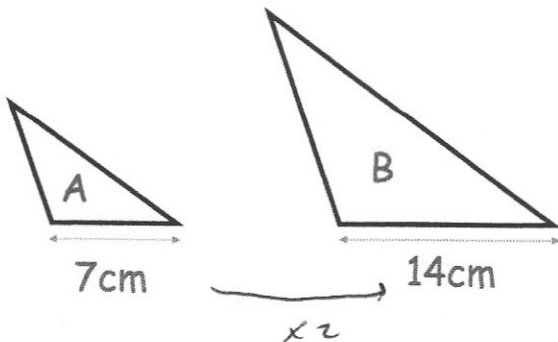
$$200 \times 3.5$$

$$= 700$$

What fraction of the pilots between 200 and 400 hours?

$$\text{total} = 1465 \quad 200 \text{ to } 400 \text{ hrs} = 720$$

$$\frac{720}{1465} = \frac{144}{293}$$



Triangles A and B are mathematically similar.

The area of triangle A is 21 cm^2

Work out the area of triangle B.

$$21 \times 2^2 = 84 \text{ cm}^2$$

Solve

$$9x^2 + 29x - 28 = 0$$

$$(9x - 7)(x + 4) = 0$$

$$x = \frac{7}{9} \text{ or } x = -4$$