



Solve, giving your answers to one decimal place.

$$8x^2 - 8x - 9 = 0$$

$$a = 8 \quad b = -8 \quad c = -9$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{8 \pm \sqrt{64 - (-288)}}{16}$$

$$x = 1.7 \quad \text{or} \quad x = -0.7$$

Lorcan invested £4000 in a savings for one year. He receives interest at the end of the year.

Lorcan gives 30% of the interest to his sister, Beth. Lorcan gives Beth £7.20.

Work out the percentage interest rate for the savings account.

$$30\% \text{ of } I = 7.20$$

$$1\% \text{ of } I = 0.24$$

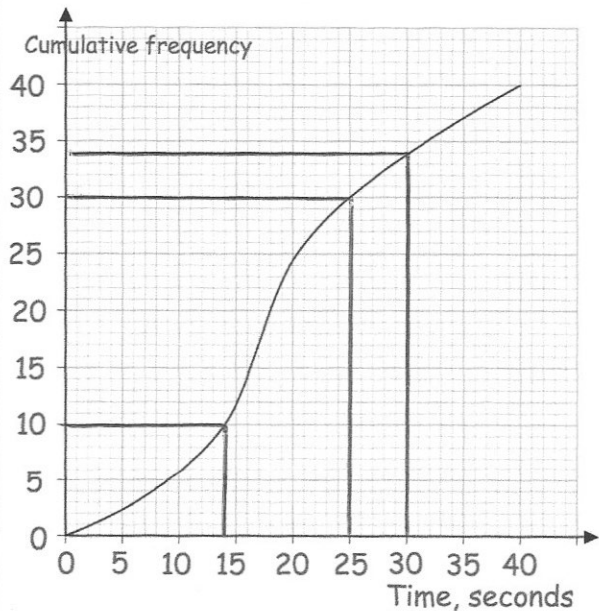
$$100\% \text{ of } I = £24$$

$$\frac{24}{4000} \times 100 = 0.6\%$$

The graph shows information about the time taken by 40 children to answer a question.

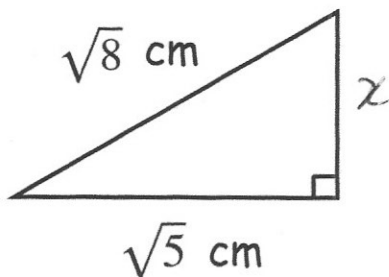
Find an estimate for the interquartile range.

$$25 - 14 = 11 \text{ seconds}$$



Show that less than 20% of the children took longer than 30 seconds.

~~20% of 40 = 8~~
 6 students took longer than 30 seconds
 6 is less than 20% of 40 (8)



Calculate the length of the missing side. Leave your answer as a surd.

$$(\sqrt{5})^2 + x^2 = (\sqrt{8})^2$$

$$5 + x^2 = 8$$

$$x^2 = 3 \quad x = \sqrt{3} \text{ cm}$$