

27th April

Higher 5-a-day



Corbettmaths

Solve

$$2y^2 - y = 15$$

$$2y^2 - y - 15 = 0$$

$$(2y + 5)(y - 3) = 0$$

$$y = -2.5 \text{ or } y = 3$$

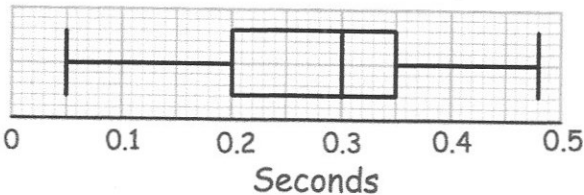
Simplify $\sqrt{18} + \sqrt{72}$

$$\sqrt{9} \times \sqrt{2} + \sqrt{36} \times \sqrt{2}$$

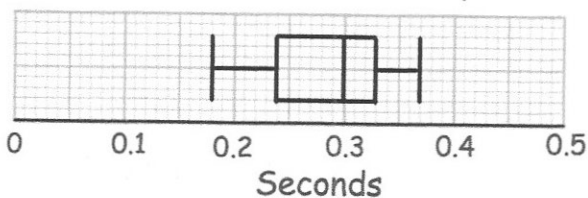
$$3\sqrt{2} + 6\sqrt{2}$$

$$9\sqrt{2}$$

Reaction Times - Group A



Reaction Times - Group B



Shown are the reaction times of two groups of people.

Compare the distributions.

Group A & B have the same median reaction time (0.3s)

Group A's reaction times are more spread out - IQR of 0.15s compared to 0.09s.

In the sales, a CD player costs £64 from Electrics'R'Us and the same CD player costs £64.60 from Music World.

Which shop has the cheapest normal price?

Music World by £4

Electrics'R'Us

$\frac{1}{5}$ off normal price

$$80\% \text{ of } y = 64$$

$$1\% \text{ of } y = 0.8$$

$$100\% \text{ of } y = 80$$

Music World

15% off normal price

$$85\% \text{ of } x = 64.60$$

$$1\% \text{ of } x = 0.76$$

$$100\% \text{ of } x = 76$$