

23rd December



Corbettmaths

$$2\frac{4}{5} + 3\frac{2}{3}$$

$$\frac{14}{5} + \frac{11}{3}$$

$$\frac{42}{15} + \frac{55}{15}$$

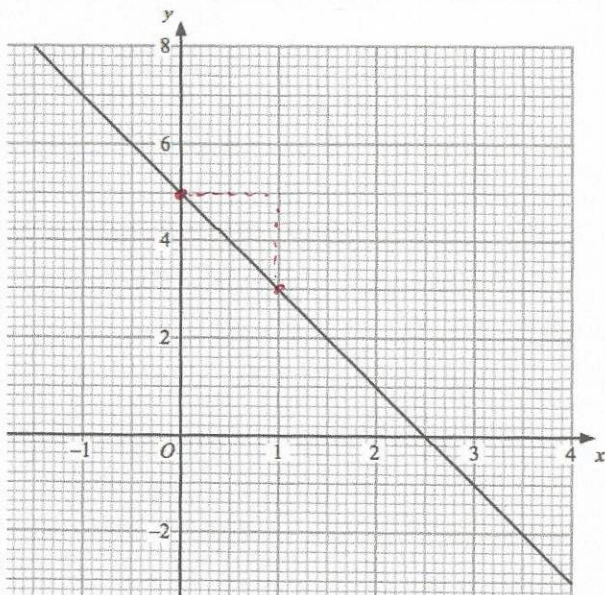
$$\frac{97}{15} = 6\frac{7}{15}$$

Solve

$$x^2 - 8x - 33 = 0$$

$$(x - 11)(x + 3) = 0$$

$$x = 11 \text{ or } x = -3$$



Find the gradient of the line drawn.

$$-2$$

Find the equation of the line drawn.

$$y = -2x + 5$$

The ratio of adults to children at an annual concert in 2016 is 2:7 and in total 1350 people attended the concert.

The price of an adult ticket is £30 and the price of a child ticket is £20.

35% of the total ticket sales each year is given to a charity.

The amount of money raised for charity in 2016 is 25% more than raised in 2015.

Work out how much was given to the charity in 2015.

$$2 + 7 = 9 \quad 1350 \div 9 = 150$$

$$150 \times 2 = 300 \text{ Adults} \quad 150 \times 7 = 1050 \text{ children}$$

$$\left. \begin{array}{l} 300 \times 30 = 9000 \\ 1050 \times 20 = 21000 \end{array} \right\} \text{£}30000$$

$$35\% \text{ of } 30000 = \text{£}10500$$

$$10500 = 125\%$$

$$84 = 1\%$$

$$8400 = 100\%$$

$$\text{£}8400$$