



Write 0.484848... as a fraction in its simplest form.

$$x = 0.4848\dots$$

$$100x = 48.4848\dots$$

$$99x = 48$$

$$x = \frac{48}{99}$$

$$x = \frac{16}{33}$$

Expand and simplify  $\sqrt{2}(\sqrt{8} + \sqrt{50})$

$$\sqrt{16} + \sqrt{100}$$

$$4 + 10 = 14$$

Find the equation of the line that is parallel to  $2y - 3x = 10$  and passes through the point  $(0, 8)$

$$2y = 3x + 10$$

$$y = 1.5x + 5$$

$$y = 1.5x + 8$$


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Albie has 80 notes.  
Each note is either a £5 note or £20 note.  
Albie has £820

Work out how many of each note he has.

$$52 \text{ £5 notes}$$

$$28 \text{ £20 notes}$$

$$x + y = 80$$

$$5x + 20y = 820$$

$$\underline{5x + 5y = 400}$$

$$15y = 420$$

$$y = 28 \quad x = 52$$

Factorise  $3y^2 + 10y - 8$

$$(3y - 2)(y + 4)$$