



Write  $0.\dot{3}4$  as a fraction

$$x = 0.3434\dots$$

$$100x = 34.34\dots$$

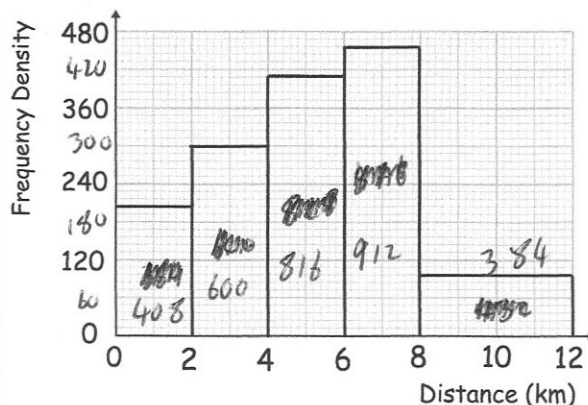
$$99x = 34 \quad x = \frac{34}{99}$$

Write  $1\frac{7}{19}$  as a decimal

$$1.36842\dots$$

The histogram shows information about the distances travelled to watch a football match.

600 fans travelled between 2km and 4km



What fraction of the fans travelled between 8km and 12km to watch the match?

$$\frac{384}{3120} = \frac{8}{65}$$

A plant is 30cm tall when planted in a garden. Each week its height increases by 10%

How many weeks will it take to exceed 1m in height?

$$30 \times 1.1^{12} = 94.15\dots$$

$$30 \times 1.1^{13} = 103.566\dots$$

13 weeks

$x : y = 8 : 3$  and  $2y = 9z$

$$y : z = 9 : 2$$

Work out  $x : z$  in its simplest form.

$$12 : 1$$

$$x : y : z$$

$$8 \quad 3$$

$$9 \quad 2$$

$$24 \quad 9 \quad 2$$