

On the grid, clearly indicate the region that satisfies all these inequalities.

$$x \geq 3 \quad y \geq 1 \quad x + y < 5$$

Make  $x$  the subject of

$$\frac{1}{3}w = \frac{1}{4}x + t$$

$$\times 12 \quad \times 12$$

$$4w = 3x + 12t$$

$$3x = 4w - 12t$$

$$x = \frac{4w - 12t}{3}$$

$$\text{or } x = \frac{4w}{3} - 4t$$

Write 0.311111... as a fraction

$$x = 0.3111\dots$$

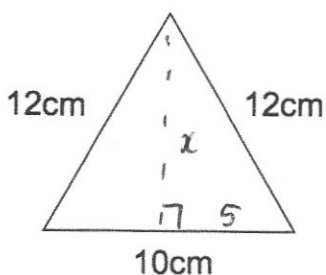
$$10x = 3.111\dots$$

$$100x = 31.111\dots$$

$$90x = 28$$

$$x = \frac{28}{90}$$

$$x = \frac{14}{45}$$



$$5^2 + x^2 = 12^2$$

$$x^2 = 119$$

$$x = \sqrt{119}$$

Shown is an isosceles triangle. Calculate its area.

$$A = \frac{1}{2} \times 10 \times \sqrt{119}$$

$$= 54.543\dots \text{cm}^2$$