George is x years old $x + 3$
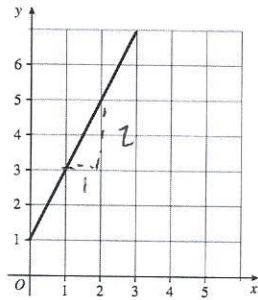Jayden is 3 years older than George
The sum of their ages is 37

Write an equation based on this
information $2x + 3 = 37$
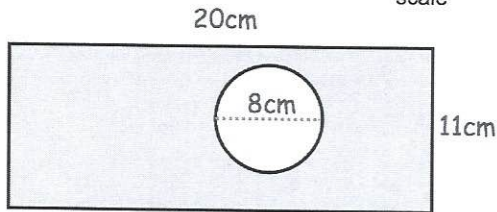
Solve the equation

$2x = 34$

$x = 17$

Work out the gradient of line L

$\frac{2}{1} = 2$

Not drawn to scale

20cm

8cm

11cm

Calculate the shaded area

$20 \times 11 = 220 \, cm^2$

$\pi \times 4^2 = 50.265\ldots cm^2$

$220 - 50.265\ldots$

$= 169.7 \, cm^2$ to 1dp

Solve the simultaneous equations

$5x - 2y = 4$ ①   ×3

$3x - 6y = 6$

Answer
$x = 0.5$ & $y = -0.75$

$15x - 6y = 12$
sub $3x - 6y = 6$
———————
$12x = 6$
$x = 0.5$
sub $x = 0.5$ into ①

$2.5 - 2y = 4$
$2.5 = 4 + 2y$
$-1.5 = 2y$
$y = -0.75$

14cm

A

25°

10cm

14cm

B

25°

10cm
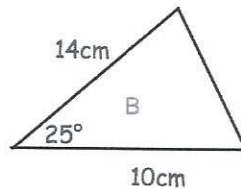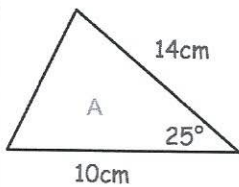
Triangles A and B are congruent.

State the reason why.

SAS

side - angle - side