$$t = \sqrt{y - ax}$$

Tom buys a car for £8000 and sells it for £6800. Calculate his percentage loss.

$$6x^2 + 5x - 6$$

Alex bought a game for £40 and sold it for £45.20. Calculate his percentage profit.

# 13

Work out

$$2\frac{2}{5} - 1\frac{3}{4}$$

# 4

Work out

$$1\frac{1}{4} + \frac{4}{5}$$

# 78

Work out

$$2\frac{2}{5} \times \frac{1}{4}$$

# 15

Work out

$$1\frac{1}{5} \div \frac{3}{4}$$

$$t = \frac{y - a}{x}$$

Expand and simplify

$$(2x + 3)(3x - 2)$$

$$2\frac{1}{20}$$

Expand and simplify

$$(2x - 3)(3x + 2)$$

# 10

Expand and simplify

$$(2x - 3)(2x + 3)$$

# 12

Make t the subject of the formula

$$y = xt + a$$

$$6x^2 - 5x - 6$$

Make t the subject of the formula

$$y = xt - a^2$$

# 52

Make t the subject of the formula

$$y = t^2 + ax$$

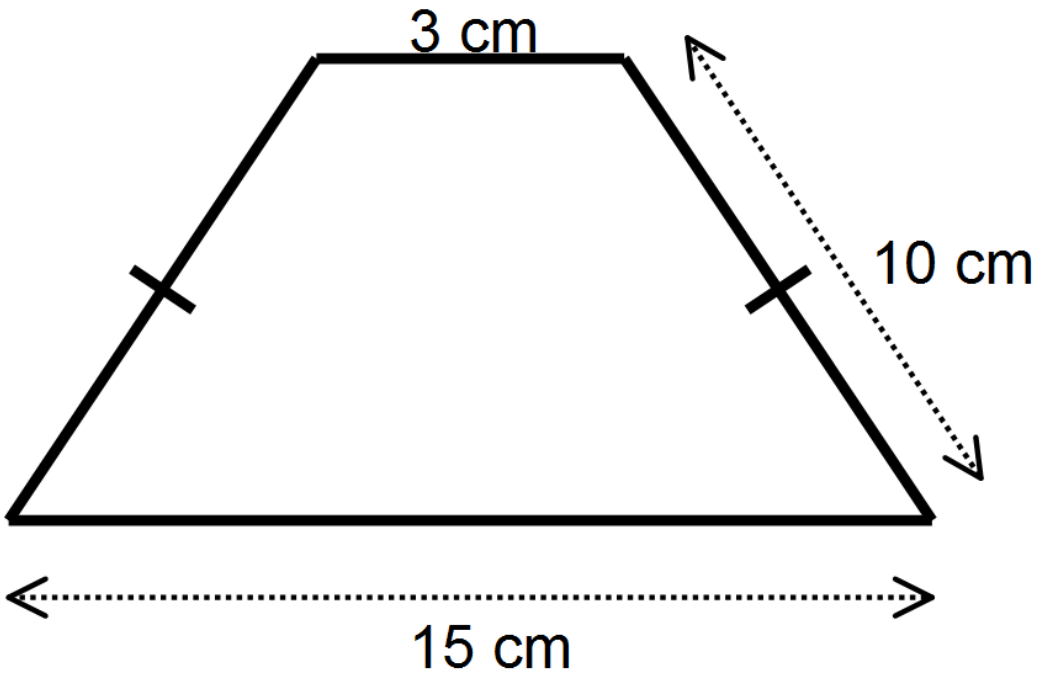
# 72

The interior angle of a regular polygon is 144°.

How many sides does the polygon have?

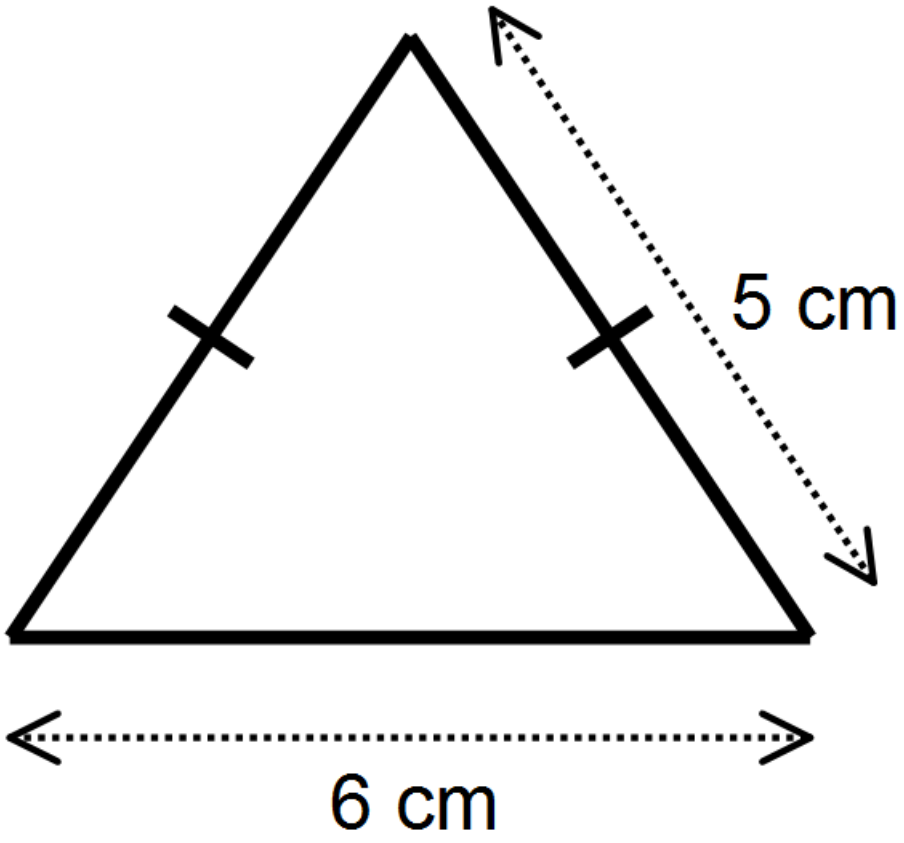
$\frac{3}{5}$

Calculate the area of



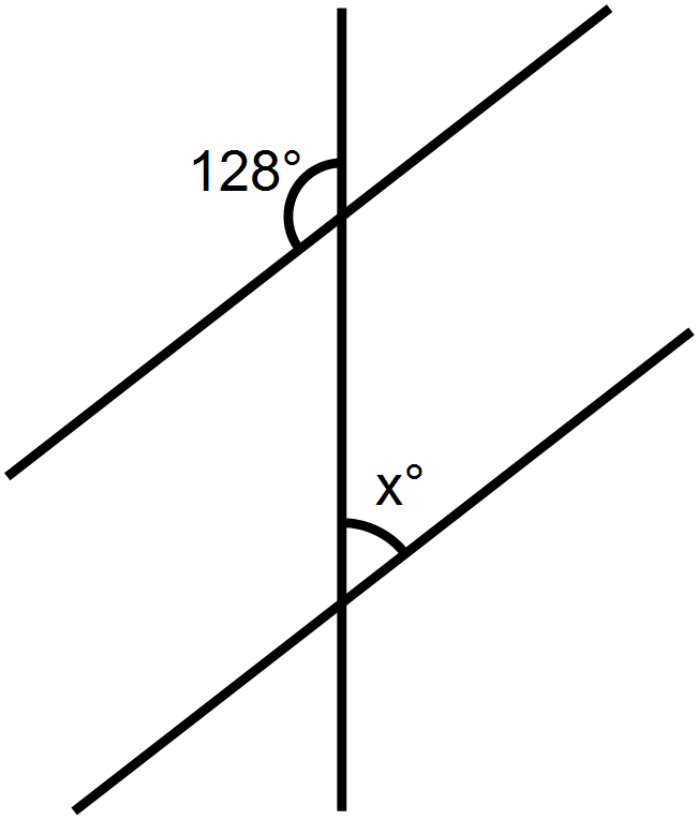
$1\frac{3}{5}$

Calculate the area of



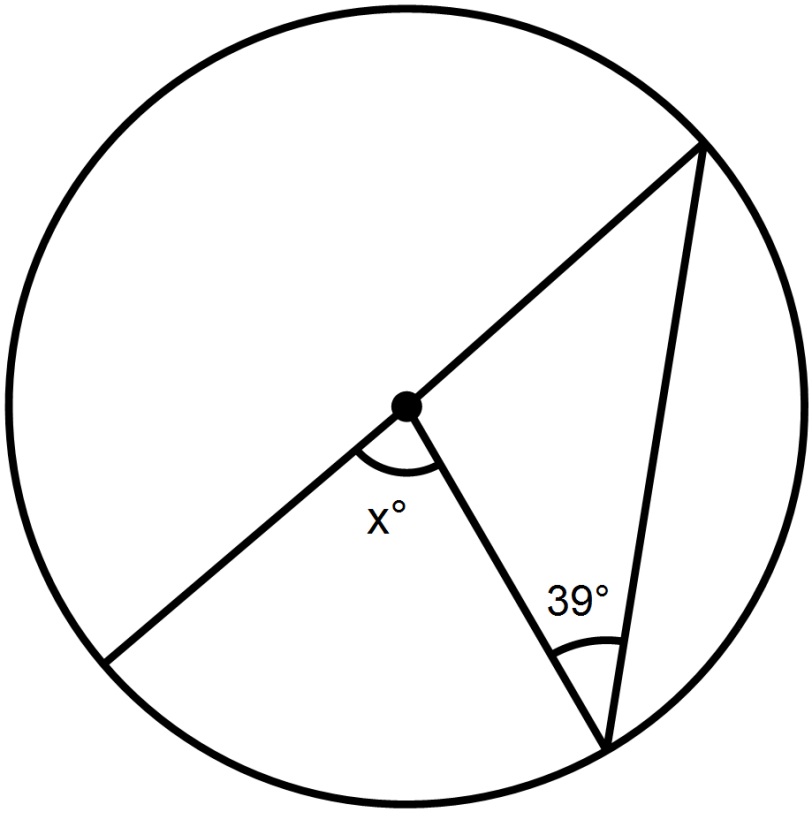
# 3

## Calculate x



$$\frac{1}{20}$$

# Calculate x



$$4x^2 - 9$$

Work out the gradient of the line

$$4y - 16x = 10$$

$$t = \frac{y + a^2}{x}$$

Solve

$$2x^3 = 54$$

# $\frac{13}{20}$

On her way to work Jo drives past 2 sets of traffic lights. The probability that she is stopped at the first set is $\frac{1}{4}$. The probability that she is stopped at the second set is $\frac{1}{5}$. What is the probability that on her way to work, she has to stop at both sets of lights?

Answer Sheet

# GCSE Higher 1B