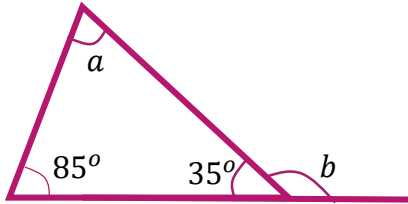


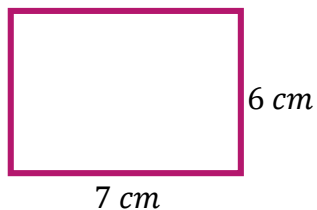
Angles in Triangles

Calculate the size of the missing angles a and b .



Area

Calculate the area of this shape.



Quick Wits

FOUNDATION 1

Percentage Increase and Decrease

A smart watch costs £240.
The shop selling the watch has a 15% sale. How much does the coat cost in the sale?



Multiplication

John needs 32 pens.
Each pen costs 15p.
John has £5.
Does he have enough money?
Give a reason for your answer.

Yes No

Ratio

Shannon and Courtney share £42 into the ratio 3:4.
How much money do they each receive?

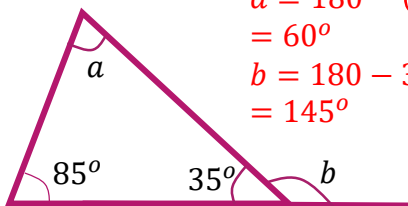
Expand and Factorise

- 1) Expand
 $3(x + 4)$
- 2) Expand and simplify
 $4(x + 5) - 2(x - 3)$
- 3) Expand
 $(x + 2)(x + 7)$
- 4) Factorise Fully
 $12x - 18$

Quick Wits

Angles in Triangles

Calculate the size of the missing angles a and b.



$$a = 180 - (85 + 35)$$

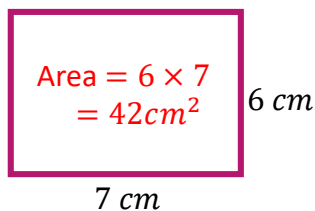
$$= 60^\circ$$

$$b = 180 - 35$$

$$= 145^\circ$$

Area

Calculate the area of this shape.



$$\text{Area} = 6 \times 7$$

$$= 42\text{cm}^2$$



FOUNDATION 1

Percentage Increase and Decrease

A smart watch costs £240.
The shop selling the watch has a 15% sale. How much does the coat cost in the sale?



Non-Calculator Method

$$10\% = \text{£}24 \text{ and } 5\% = \text{£}12$$

$$15\% = \text{£}36$$

$$\text{Sale Price} = 240 - 36 = \text{£}204$$

Calculator Method

$$0.85 \times 240 = \text{£}204$$

Multiplication

John needs 32 pens.
Each pen costs 15p.
John has £5. $32 \times 15 = 480\text{p} = \text{£}4.80$

Does he have enough money?

Give a reason for your answer.

Yes No

The pens will cost £4.80 this means
John will have 20p change.

Ratio

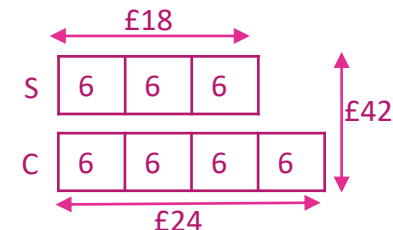
Shannon and Courtney share £42 into the ratio 3:4. How much money do they each receive?

$$3 + 4 = 7$$

$$\text{Per box } \frac{42}{7} = \text{£}6$$

$$\text{Shannon} = 6 \times 3 = \text{£}18$$

$$\text{Courtney} = 6 \times 4 = \text{£}24$$



Expand and Factorise

- Expand

$$3(x + 4)$$

$$= 3x + 12$$
- Expand and simplify

$$4(x + 5) - 2(x - 3)$$

$$= 4x + 20 - 2x + 6$$

$$= 2x + 26$$
- Expand

$$(x + 2)(x + 7)$$

$$= x^2 + 2x + 7x + 14$$

$$= x^2 + 9x + 14$$
- Factorise Fully

$$12x - 18$$

$$= 6(2x - 3)$$