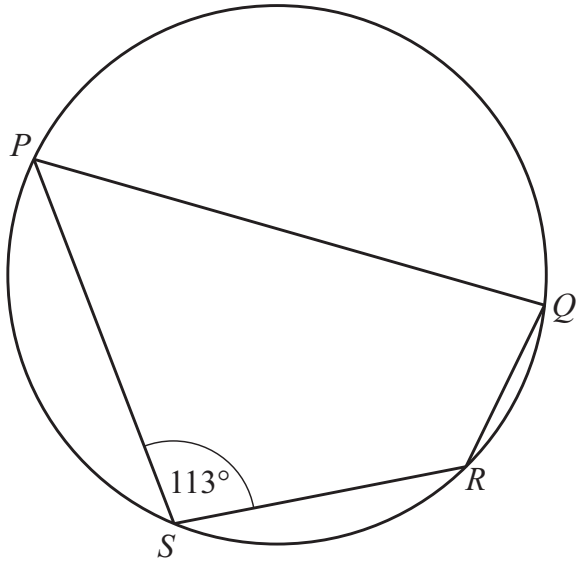
1. Question | 0607 Feb-March 2025 P4 V2 Q6

6



NOT TO SCALE

P, Q, R and S are points on the circle.

Find angle PQR.

Angle PQR = ... [1]

2. Question | 0607 May-June 2025 P4 V1 Q15

15



NOT TO SCALE

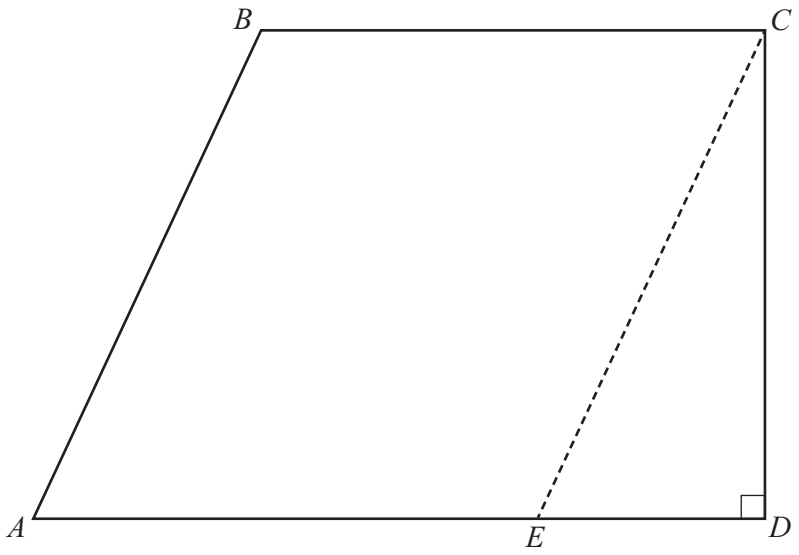
These two bottles are mathematically similar.
The capacity of the small bottle is 0.5 litres.
The capacity of the large bottle is 1 litre.
The height of the large bottle is 25 cm.

Calculate the height of the small bottle.

.....cm [3]

3. Question | 0607 May-June 2025 P4 V2 Q16

16 In this question, all lengths are in centimetres.



NOT TO SCALE

The diagram shows a quadrilateral $ABCD$.
$ABCE$ is a rhombus and CDE is a right-angled triangle.
$AC = (2\sqrt{3})x$ and $BE = 2x$.

(a) Show that $AE = 2x$.

[2]

(b) Find, in terms of x, the perimeter of $ABCD$.

..... [4]

4. Question | 0607 May-June 2025 P4 V3 Q1

1 Complete the statements.

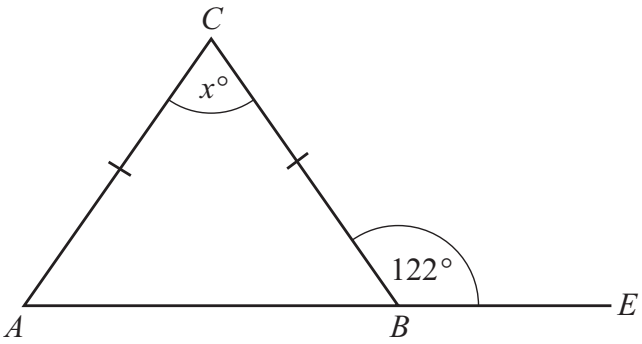
A rhombus has rotational symmetry of order .....

A parallelogram has ..... lines of symmetry.

[2]

5. Question | 0607 May-June 2025 P4 V3 Q4

4



NOT TO SCALE

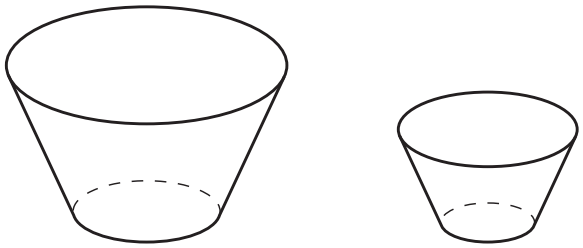
In the diagram, $CA = CB$ and ABE is a straight line.

Find the value of x.

$x =$ ..... [2]

6. Question | 0607 May-June 2025 P4 V3 Q19

19



NOT TO SCALE

The two solids are mathematically similar.

The volume of the large solid is 416 cm^3.
The volume of the small solid is 52 cm^3.

The total surface area of the small solid is 60 cm^2.

Calculate the total surface area of the large solid.

..... cm^2 [3]

7. Question | 0607 Oct-Nov 2025 P4 V2 Q4

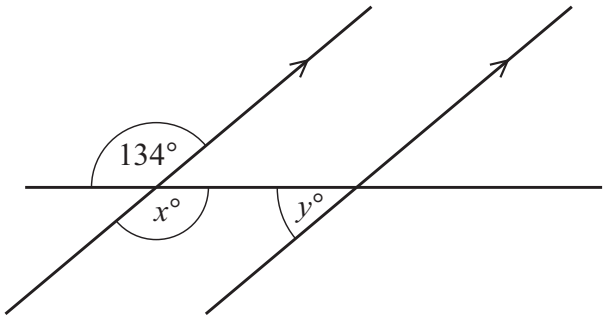
4 The interior angles of a quadrilateral are 67°, 112°, x° and $(x-7)$° .

Find the value of x.

$x =$ ..... [2]

8. Question | 0607 Oct-Nov 2025 P4 V3 Q1

1



NOT TO SCALE

The diagram shows a straight line intersecting 2 parallel lines.

Find the value of x and the value of y.

$x =$ .....

$y =$ .....

[2]

9. Question | 0607 Oct-Nov 2025 P4 V3 Q17

17 Solid A is mathematically similar to solid B.

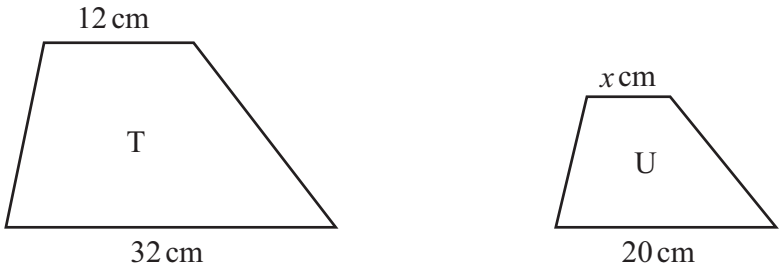
The surface area of solid A is $383\,\text{cm}^2$.
The surface area of solid B is $792\,\text{cm}^2$.
The volume of solid B is $1810\,\text{cm}^3$.

Find the volume of solid A.

..... cm^3 [3]

10. Question | 0607 May-June 2026 P4 V1 Q15

15 The diagram shows 2 trapeziums.



NOT TO SCALE

Trapezium U is mathematically similar to trapezium T.

(a) Find the value of x.

$x =$ ..... [2]

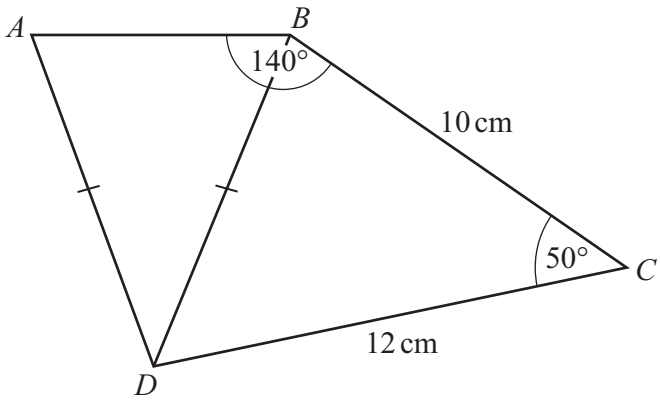
(b) The area of trapezium U is $80\ \text{cm}^2$.

Find the area of trapezium T.

..... cm^2 [2]

11. Question | 0607 May-June 2026 P4 V1 Q18

18 The diagram shows a quadrilateral.



NOT TO SCALE

Triangle ABD is isosceles with $AD = BD$.
Angle $ABC = 140°$ and angle $BCD = 50°$.

Calculate angle ADB.

angle $ADB =$ ..... [6]

12. Question | 0607 May-June 2026 P4 V2 Q1

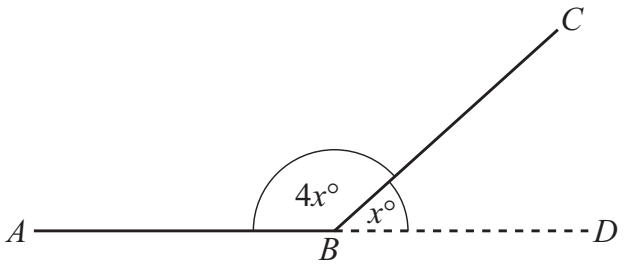
1 A quadrilateral has one line of symmetry and no rotational symmetry.

Write down the mathematical name of this quadrilateral.

..... [1]

13. Question | 0607 May-June 2026 P4 V2 Q8

8



NOT TO SCALE

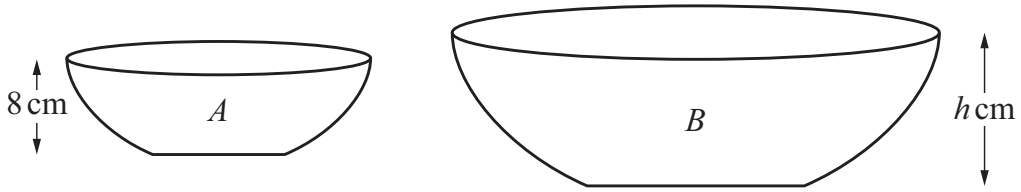
AB and *BC* are two sides of a regular polygon.
ABD is a straight line.

Find the number of sides of this polygon.

..... [2]

14. Question | 0607 May-June 2026 P4 V2 Q14

14



NOT TO SCALE

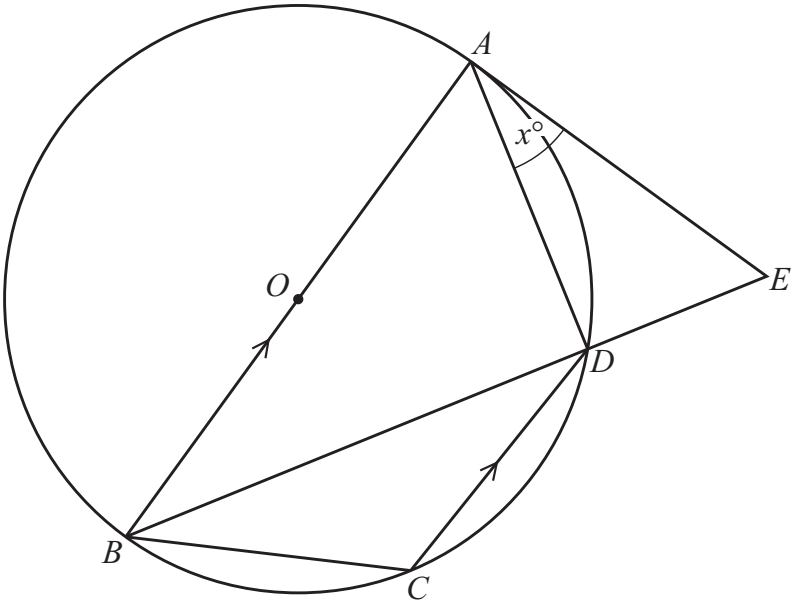
The two solids are mathematically similar.
The volume of solid B is 2 times the volume of solid A.
The height of solid A is 8 cm.
The height of solid B is h cm.

Find the value of h.

$h =$ ..... [2]

15. Question | 0607 May-June 2026 P4 V3 Q12

12



NOT TO SCALE

A, B, C and D lie on a circle centre O.
AOB is a diameter and BDE is a straight line.

AE is a tangent to the circle at A.
AB is parallel to DC.
Angle $DAE = x°$.

Find, in terms of x,

(a) angle ABD

angle ABD = ... [1]

(b) angle CDB

angle CDB = ... [1]

(c) angle BCD

angle BCD = ... [1]

(d) angle CBD.

angle CBD = ... [1]