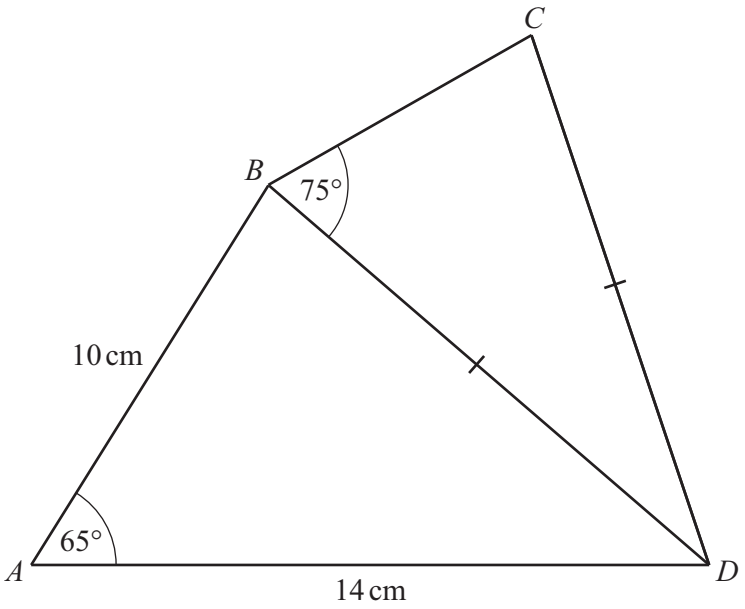
1. Question part 1/2 | 0607 Feb-March 2025 P4 V2 Q14

14



NOT TO SCALE

Triangle BCD is isosceles.

(a) Find the area of triangle ABD.

..... cm^2 [2]

(b) Find the shortest distance from D to AB.

..... cm [3]

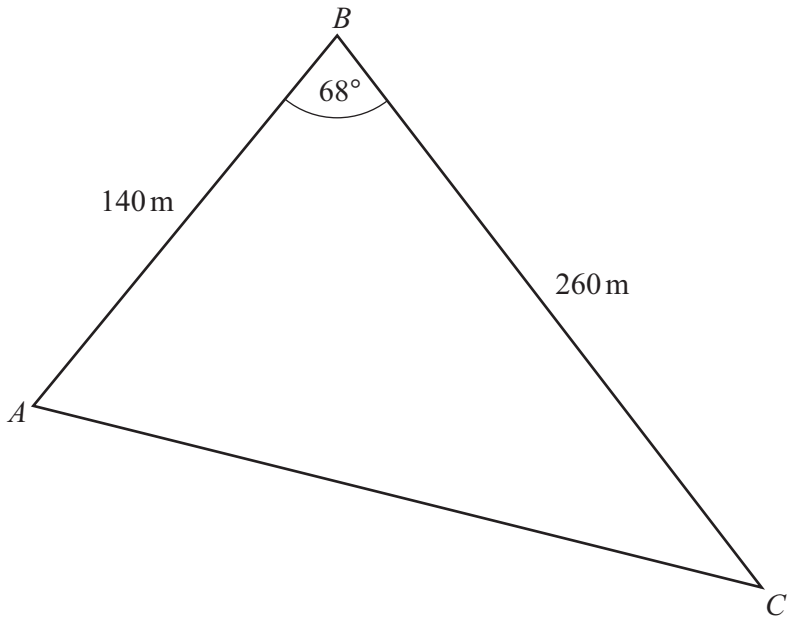
1. Question part 2/2 | 0607 Feb-March 2025 P4 V2 Q14

(c) Find the perimeter of $ABCD$.

..... cm [6]

2. Question | 0607 May-June 2025 P4 V1 Q12

12



NOT TO SCALE

The diagram shows a triangular field.
$AB = 140$ m and $BC = 260$ m.
Angle $ABC = 68°$.

(a) Show that $AC = 244.8$ m correct to 1 decimal place.

[3]

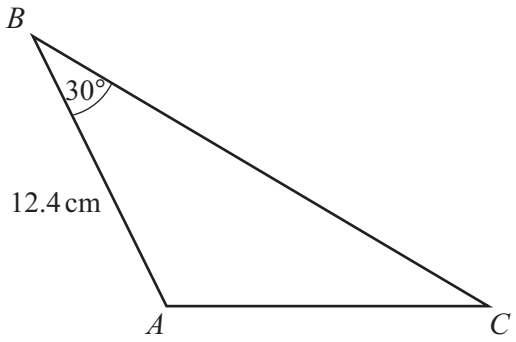
(b) Giselle walks directly from A to C.

Calculate the distance Giselle is from A when she is closest to B.

..... m [5]

3. Question part 1/2 | 0607 May-June 2025 P4 V2 Q15

15



NOT TO SCALE

The area of triangle ABC is $74.4\,\text{cm}^2$.
$AB = 12.4\,\text{cm}$ and angle $ABC = 30°$.

(a) Show that $BC = 24\,\text{cm}$.

[2]

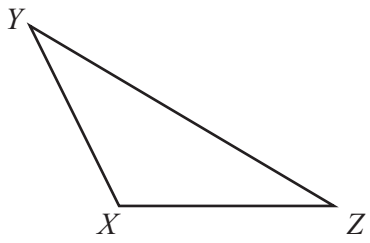
(b) Find AC.

$AC =$ ..... cm [3]

(c) Find obtuse angle CAB.

Angle CAB = ... [3]

(d)



NOT TO SCALE

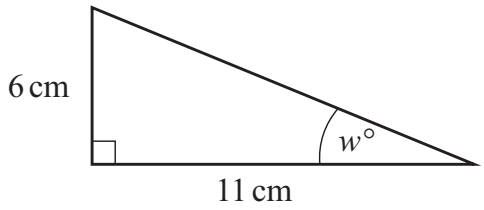
Triangle XYZ is similar to triangle ABC.
The area of triangle XYZ is 62 cm^2.

Find YZ.

YZ = ... cm [3]

4. Question | 0607 May-June 2025 P4 V3 Q6

6



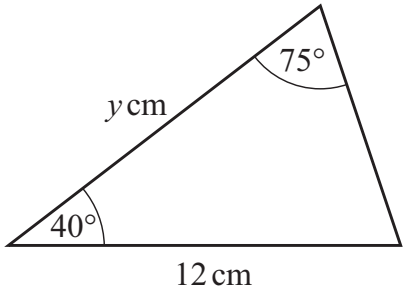
NOT TO SCALE

Calculate the value of w.

$w =$ ..... [2]

5. Question | 0607 May-June 2025 P4 V3 Q15

15



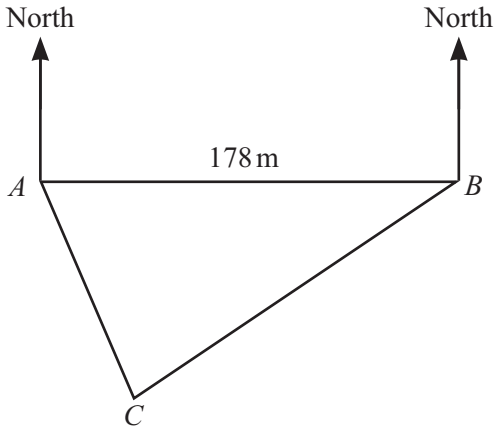
NOT TO SCALE

Calculate the value of y.

$y =$ ..... [4]

6. Question | 0607 Oct-Nov 2025 P4 V1 Q9

9



NOT TO SCALE

ABC is a field on level ground.
B is 178 m due east of *A*.
The bearing of *C* from *A* is 158°.
The bearing of *C* from *B* is 237°.

(a) Calculate the length of *CB*.

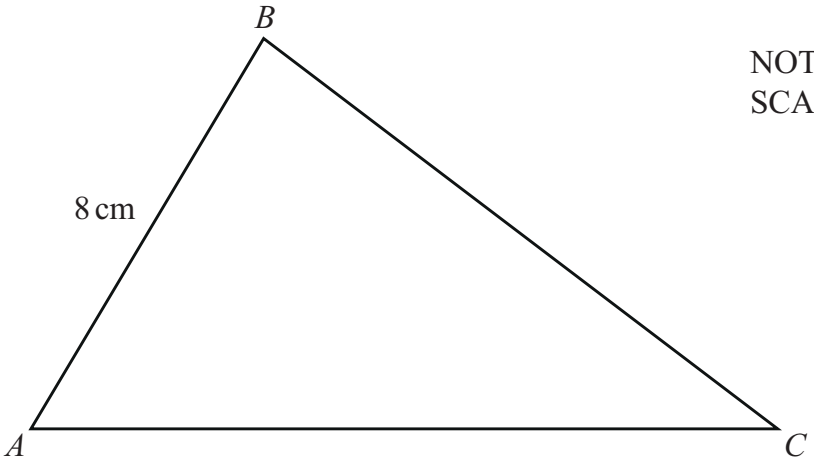
..... m [4]

(b) Calculate the area of the field *ABC*.

..... m^2 [2]

7. Question | 0607 Oct-Nov 2025 P4 V2 Q11

11

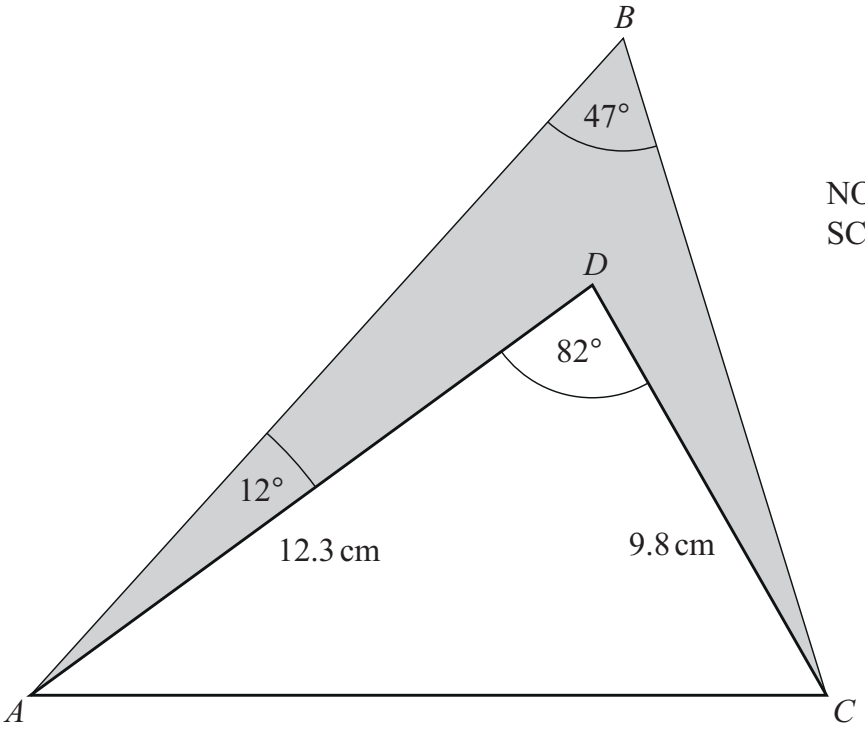


Angle $ABC = 90°$ and angle $BAC = 65°$.

Calculate BC.

$BC =$ ..... cm [2]

14



ABC and ADC are triangles.
$AD = 12.3$ cm and $CD = 9.8$ cm.
Angle $ABC = 47°$, angle $ADC = 82°$ and angle $BAD = 12°$.

(a) Find AC.

$AC =$ ..... cm [3]

(b) Show that angle $DAC = 41.6°$, correct to 1 decimal place.

[3]

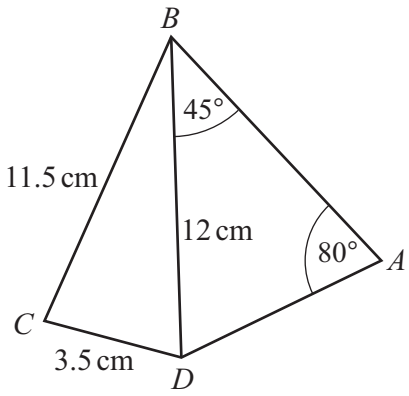
(c) $BC = 16.1$ cm.

Find the area of the shaded quadrilateral $ABCD$.

..... cm^2 [4]

9. Question | 0607 Oct-Nov 2025 P4 V3 Q14

14



NOT TO SCALE

The diagram shows a quadrilateral $ABCD$ with diagonal BD.

(a) Calculate AB.

$AB =$ ..... cm [3]

(b) Calculate angle CBD.

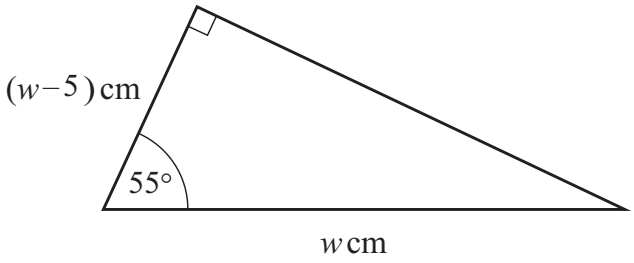
Angle $CBD =$ ..... [3]

(c) Calculate the area of triangle ABC.

..... cm^2 [2]

10. Question | 0607 Oct-Nov 2025 P4 V3 Q15

15



NOT TO SCALE

The diagram shows a right-angled triangle.

Calculate the value of w.

$w =$ ..... [3]

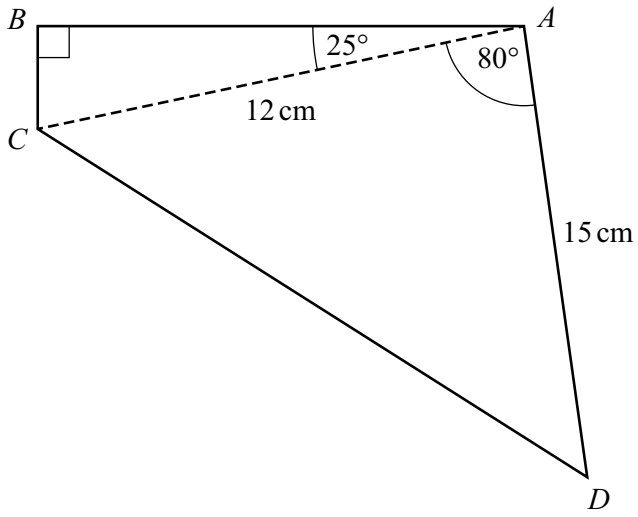
11. Question | 0607 Oct-Nov 2025 P4 V3 Q18

18 Solve $1+\tan x=-1$ for $0° \leqslant x \leqslant 180°$.

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

12. Question part 1/2 | 0607 Specimen 2025 P4 Q12

12



NOT TO SCALE

(a) Calculate the area of the quadrilateral $ABCD$.

..... cm^2 [4]

(b) Calculate the length of CD.

..... cm [3]

12. Question part 2/2 | 0607 Specimen 2025 P4 Q12

(c) Calculate the shortest distance from A to CD.

..... cm [6]

13. Question | 0607 Specimen 2025 P4 Q14

14 Solve the equation $\sin x = -0.75$ for $0° \leqslant x \leqslant 360°$.

..... [2]

15 $f(x) = p\cos(qx)$
The amplitude of $f(x)$ is 3 and the period is 30°.

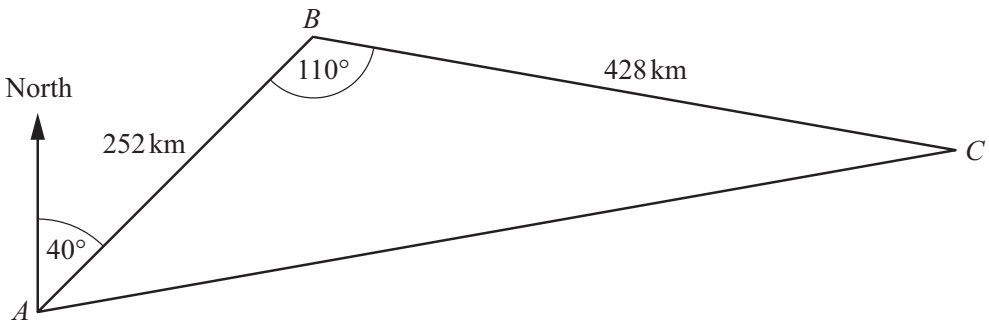
Find f(10).

..... [3]

15. Question | 0607 Feb-March 2026 P4 V2 Q14

14 The diagram shows the positions of A, B and C.

NOT TO SCALE



$AB = 252$ km and $BC = 428$ km.
Angle $ABC = 110°$.
The bearing of B from A is 040°.

(a) Calculate AC.

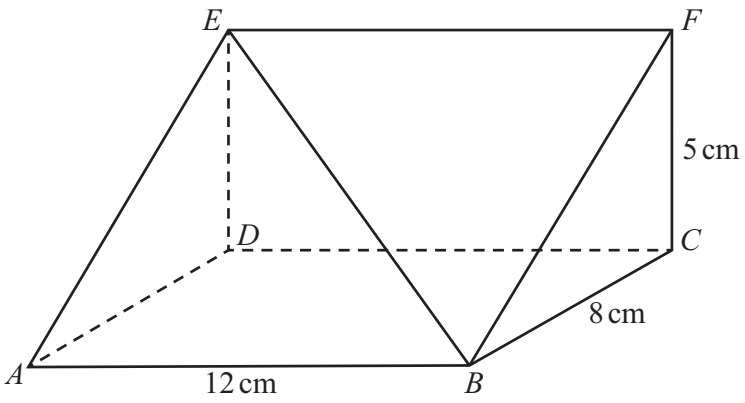
$AC =$ ..... km [3]

(b) Find the bearing of C from A.

..... [4]

16. Question | 0607 Feb-March 2026 P4 V2 Q16

16 The diagram shows a triangular prism.



NOT TO SCALE

ABCD is a horizontal plane.
Angle *BCF* is a right angle.

(a) Calculate the length *BE*.

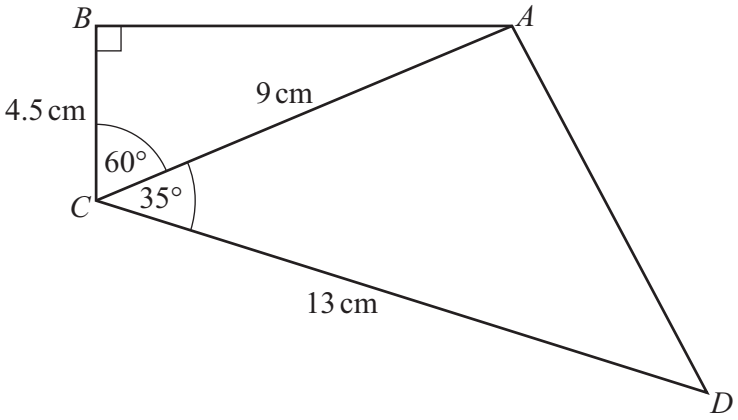
BE = ... cm [3]

(b) Calculate the angle between *BE* and the horizontal plane.

..... [2]

17. Question | 0607 May-June 2026 P4 V2 Q15

15



NOT TO SCALE

(a) Calculate the area of the quadrilateral $ABCD$.

..... cm^2 [3]

(b) Calculate the perimeter of the quadrilateral $ABCD$.

..... cm [5]

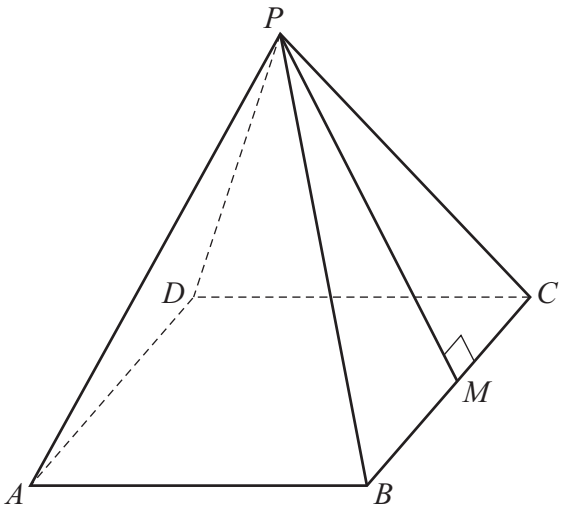
(c) P is the point on the line CD that is the nearest point to A.

Calculate CP.

$CP =$ ..... cm [3]

18. Question | 0607 May-June 2026 P4 V2 Q18

18 The diagram shows a pyramid on a square base $ABCD$.



NOT TO SCALE

M is the midpoint of BC.
$BC = 10\,\text{cm}$ and $PM = 12\,\text{cm}$.

(a) Calculate the area of triangle PBC.

..... cm^2 [1]

(b) Calculate the total surface area of the pyramid.

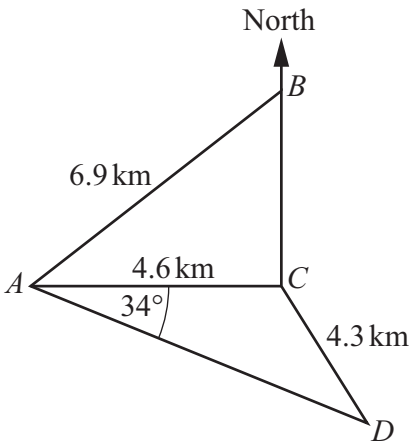
..... cm^2 [1]

(c) Calculate the angle between PM and the base $ABCD$.

..... [2]

19. Question | 0607 May-June 2026 P4 V3 Q15

15



NOT TO SCALE

The diagram shows four points A, B, C and D.
B is due North of C.
C is due East of A.

(a) Find the bearing of D from A.

..... [1]

(b) Find BC.

$BC =$ ..... km [3]

(c) Angle BCD is obtuse.

Find the bearing of D from C.

..... [4]