

Cambridge IGCSE Maths 0580 Mensuration and Trigonometry Practice Exam: Mark Scheme

Cambridge IGCSE Mathematics (0580), Core and Extended · 23 questions · 49 marks

- M marks are for a correct method; A marks for an accurate answer that follows a correct method; B marks are independent of method.
- Accept any correct method that reaches a correct answer, unless the question says which method to use.
- Practise these topics online with instant feedback: igcsemathrevision.com/igcse-unit.html?course=cie0580&unit=5

Section A: no calculator

Question 1 2 marks

B1 (a) 3500 m

B1 (b) 0.75 kg

Final answer: (a) 3500 m (b) 0.75 kg

Question 2 2 marks

B1 (a) 23 cm

B1 (b) 31.5 cm²

Final answer: (a) 23 cm (b) 31.5 cm²

Question 3 2 marks

B1 (a) 10π cm

B1 (b) 25π cm²

Final answer: (a) 10π cm (b) 25π cm²

Question 4 2 marks

B1 (a) 60 cm³

B1 (b) 104 cm²

Final answer: (a) 60 cm³ (b) 104 cm²

Question 5 2 marks

M1 $10 \times 8 - 4 \times 3$

A1 68 cm²

Final answer: 68 cm²



Question 6**2 marks**

M1 $6^2 + 8^2$

A1 10 cm

Final answer: 10 cm**Question 7****2 marks**

B2 $\sin A = 3/5$, $\cos A = 4/5$, $\tan A = 3/4$ (B1 for two correct)

Final answer: $\sin A = \frac{3}{5}$, $\cos A = \frac{4}{5}$, $\tan A = \frac{3}{4}$

Question 8**2 marks**

B2 $\frac{1}{2}$, $\frac{1}{2}$, 1 (B1 for two correct)

Final answer: (a) $\frac{1}{2}$ (b) $\frac{1}{2}$ (c) 1

Question 9**2 marks**

M1 $60\,000 \div 1\,000\,000$

A1 0.06 m^3

Final answer: 0.06 m^3

Question 10**2 marks**

M1 $\frac{1}{2} \times (6 + 10) \times 5$

A1 40 cm^2

Final answer: 40 cm^2

Question 11**2 marks**

M1 $60/360 \times 2 \times \pi \times 12$

A1 $4\pi\text{ cm}$

Final answer: $4\pi\text{ cm}$

Question 12**2 marks**

M1 $\frac{1}{3} \times \pi \times 3^2 \times 8$

A1 $24\pi\text{ cm}^3$

Final answer: $24\pi\text{ cm}^3$

Question 13**2 marks**

M1 $4^3 + 6 \times 6 \times 2$

A1 136 cm^3

Final answer: 136 cm^3



Question 14**2 marks**

M1 $9^2 + 12^2 = 81 + 144$

A1 $= 225 = 15^2$, so right-angled

Final answer: $9^2 + 12^2 = 225 = 15^2$, so it is right-angled

Question 15**2 marks**

M1 $\frac{1}{2} + \frac{1}{2}$

A1 1

Final answer: 1

Question 16**3 marks**

M1 (a) $\sqrt{5^2 + 12^2}$

A1 (a) 13 m

B1 (b) $\frac{5}{12}$

Final answer: (a) 13 m (b) $\frac{5}{12}$

Question 17**2 marks**

B1 (a) 60°

B1 (b) 30°

Final answer: (a) 60° (b) 30°

Section B: calculator allowed**Question 18****2 marks**

M1 $50 \div (2\pi)$

A1 7.96 cm (7.957...)

Final answer: 7.96 cm

Question 19**2 marks**

M1 $\frac{1}{3} \times 36 \times 10$

A1 120 cm³

Final answer: 120 cm³

Question 20**2 marks**

M1 $\sqrt{6^2 - 1.8^2}$

A1 5.72 m (5.723...)

Final answer: 5.72 m



Question 21**2 marks**

M1 $\tan x = 5.2/8.1$

A1 32.7°

Final answer: 32.7° **Question 22****3 marks**

M1 $52.5 \div 7.5 (= 7)$

M1 $2 \times (7.5 + \text{their } 7)$

A1 29 cm

Final answer: 29 cm**Question 23****3 marks**

M1 $\pi \times 3^2 \times 10 (= 90\pi)$

M1 $\frac{1}{3} \times \pi \times 3^2 \times 4 (= 12\pi)$

A1 320 cm^3 (320.4...)

Final answer: 320 cm^3 End of mark scheme · More free exams: [igcsemathrevision.com/free-practice-exams](https://www.igcsemathrevision.com/free-practice-exams)