

Cambridge IGCSE Maths 0580 Number Practice Exam: Mark Scheme

Cambridge IGCSE Mathematics (0580), Core and Extended · 24 questions · 50 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=1](https://www.igcsemathrevision.com/igcse-unit.html?course=cie0580&unit=1)

Section A: no calculator

Question 1 2 marks

B1 (a) 1

B1 (b) $\frac{1}{8}$

Final answer: (a) 1 (b) $\frac{1}{8}$

Question 2 2 marks

B1 (a) 0.05

B1 (b) 0.0474

Final answer: (a) 0.05 (b) 0.0474

Question 3 2 marks

B1 11.5

B1 12.5

Final answer: lower bound 11.5 cm, upper bound 12.5 cm

Question 4 2 marks

M1 64/100

A1 16/25

Final answer: $\frac{16}{25}$

Question 5 2 marks

M1 converts at least three correctly, e.g. 0.7, 0.71, 0.75

A1 0.07, $\frac{7}{10}$, 71%, 0.717, $\frac{3}{4}$ cao

Final answer: 0.07, $\frac{7}{10}$, 71%, 0.717, $\frac{3}{4}$



Question 6**2 marks****M1** $25 = 5^2$ or $1/25 = 5^{-2}$ **A1** -2 **Final answer:** $n = -2$ **Question 7****2 marks****M1** $6 \div 3 = 2$ and $10^8 \div 10^{-2} = 10^{10}$ **A1** 2×10^{10} **Final answer:** 2×10^{10} **Question 8****2 marks****B1** 7.55**B1** 7.65**Final answer:** $7.55 \leq l < 7.65$ **Question 9****2 marks****M1** $35 \div 5 = 7$ **A1** 56**Final answer:** 56**Question 10****2 marks****M1** $18 \times 40/60$ oe**A1** 12 km**Final answer:** 12 km**Question 11****2 marks****M1** $0.35 \times 80 = 28$ or 0.65×80 **A1** 52**Final answer:** \$52**Question 12****2 marks****M1** e.g. 12 min to 10 00, then 3 h 17 min, or 13 17 – 09 48 using 60 minutes in an hour**A1** 3 hours 29 minutes cao**Final answer:** 3 hours 29 minutes**Question 13****2 marks****M1** 1350×0.12 (= 162)**A1** 180.50 cao**Final answer:** \$180.50

Question 14**2 marks****B1** (a) 1.07**B1** (b) 0.85**Final answer:** (a) 1.07 (b) 0.85**Question 15****3 marks****M1** converts to a common form, e.g. 0.375, 0.4, 0.35, 0.37, 0.4**A1** $35\% < 0.37 < \frac{3}{8} < 0.4$ order correct**B1** shows $0.4 = 2/5$ **Final answer:** $35\% < 0.37 < \frac{3}{8} < 0.4 = \frac{2}{5}$ **Question 16****3 marks****M1** $500 \div 1.25 (= 400 \text{ euros})$ **M1** $(\text{their } 400 - 310) \times 1.20$ **A1** 108 cao**Final answer:** \$108**Section B: calculator allowed****Question 17****1 mark****B1** 17.5%**Final answer:** 17.5%**Question 18****2 marks****M1** lists multiples or writes $18 = 2 \times 3^2$ and $30 = 2 \times 3 \times 5$ **A1** 90**Final answer:** 90**Question 19****2 marks****B1** (a) $A \cap B'$ **B1** (b) $(A \cup B)'$ oe, e.g. $A' \cap B'$ **Final answer:** (a) $A \cap B'$ (b) $(A \cup B)'$ **Question 20****2 marks****M1** 32 and 81 seen**A1** -49**Final answer:** -49

Question 21**2 marks****M1** 9 and -8 seen**A1** 17**Final answer:** 17**Question 22****2 marks****M1** $350 \div 16 (= 21.875)$ **A1** 22**Final answer:** 22**Question 23****2 marks****B1** (a) 3.562154... (at least 3.5621)**B1** (b) 3.56 FT their (a)**Final answer:** (a) 3.562154... (b) 3.56**Question 24****3 marks****B1** (a) 3.5%**M1** (b) 2400×1.035^{10} **A1** (b) 3390 (3385.4...)**Final answer:** (a) 3.5% (b) 3390 thousandEnd of mark scheme · More free exams: [igcsemathrevision.com/free-practice-exams](https://www.igcsemathrevision.com/free-practice-exams)