

WA3 Practice Paper

Decimals, measurement, area and perimeter

30 marks | Suggested time: 45 minutes

Name: Class: Date:

Answer all questions. Show your working for Sections B and C. Calculators are not allowed. Give fractions in their simplest form unless stated otherwise.

School WA topic coverage may differ. These are original practice questions. Worked solutions follow the question paper.

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Section A: Multiple Choice (6 marks)

Choose one option and write its number in the answer space.

1. What is the value of the digit 7 in 14.072?

- (1) 7
- (2) 0.7
- (3) 0.07
- (4) 0.007

Answer: [1]

2. Round 8.647 to the nearest hundredth.

- (1) 8.60
- (2) 8.64
- (3) 8.65
- (4) 8.70

Answer: [1]

3. Which decimal is equal to $\frac{7}{20}$?

- (1) 0.07
- (2) 0.14
- (3) 0.35
- (4) 0.70

Answer: [1]

4. Which number is the smallest?

- (1) 6.205
- (2) 6.025
- (3) 6.250
- (4) 6.052

Answer: [1]

5. A square has side length 9 cm. What is its area?

- (1) 18 cm²
- (2) 36 cm²
- (3) 72 cm²
- (4) 81 cm²

Answer: [1]

6. A bottle contains 1.25 litres of juice. How many millilitres is this?

- (1) 125
- (2) 250
- (3) 1250
- (4) 12 500

Answer: [1]

Section B: Short Answer (12 marks)

Show your working and give units where needed.

7. Calculate $12.08 - 3.765$.

Answer: [2]

8. Calculate 4.36×7 .

Answer: [2]

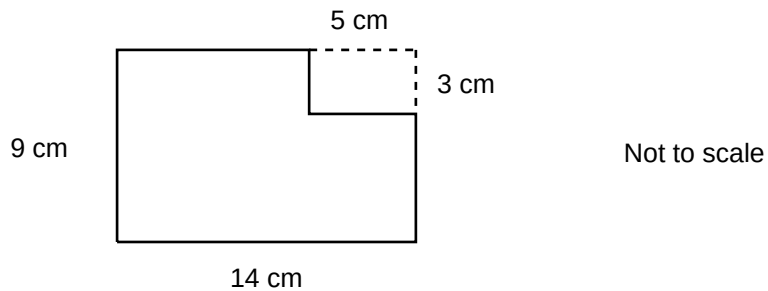
9. Calculate $9.6 \div 4$.

Answer: [2]

10. A rectangle has perimeter 50 cm and length 16 cm. Find its width.

Answer: [2]

11. The figure is made from a 14 cm by 9 cm rectangle with a 5 cm by 3 cm rectangle removed from the top-right corner. Find the area of the remaining figure.



Answer: [2]

12. A bus leaves at 9.45 a.m. and arrives at 11.20 a.m. How long is the journey? Give your answer in hours and minutes.

Answer: [2]

Section C: Problem Sums (12 marks)

Show your working and give units where needed.

13. A 7.5 m rope is cut into 4 equal pieces after a damaged section of 0.3 m is removed. (a) Find the length of each piece. [2] (b) Three pieces are joined end to end without overlap. Find their total length. [2]

Answer: [4]

14. One notebook costs \$2.85 and one pen costs \$1.60. Rina buys 4 notebooks and 3 pens. She pays with a \$20 note. How much change should she receive?

Answer: [4]

15. A rectangular garden is 18 m long and 12 m wide. A square pond of side 4 m is inside it. (a) Find the area of the garden not occupied by the pond. [2] (b) A fence is built around the outside of the garden, leaving a 3 m opening for a gate. Find the length of fencing needed. [2]

Answer: [4]

End of question paper - Total: 30 marks

WA3 Suggested Worked Solutions

Other valid methods are accepted. Mark allocations are suggested for this practice paper.

Question 1 [1 mark]

Option 3. The digit 7 is in the hundredths place: 0.07.

Suggested marking: 1 mark for the correct option.

Question 2 [1 mark]

Option 3. The thousandths digit is 7, so 8.64 rounds up to 8.65.

Suggested marking: 1 mark for the correct option.

Question 3 [1 mark]

Option 3. $\frac{7}{20} = \frac{35}{100} = 0.35$.

Suggested marking: 1 mark for the correct option.

Question 4 [1 mark]

Option 2. Compare decimal places: 6.025 is smallest.

Suggested marking: 1 mark for the correct option.

Question 5 [1 mark]

Option 4. Area = $9 \times 9 = 81 \text{ cm}^2$.

Suggested marking: 1 mark for the correct option.

Question 6 [1 mark]

Option 3. 1 litre = 1000 ml; 1.25 litres = 1250 ml.

Suggested marking: 1 mark for the correct option.

Question 7 [2 marks]

Align decimal places: $12.080 - 3.765 = 8.315$.

Suggested marking: 1 mark for valid working; 1 mark for the correct complete answer.

Question 8 [2 marks]

$436 \times 7 = 3052$.

$4.36 \times 7 = 30.52$.

Suggested marking: 1 mark for valid working; 1 mark for the correct complete answer.

Question 9 [2 marks]

96 tenths $\div$ 4 = 24 tenths.

Answer = 2.4.

Suggested marking: 1 mark for valid working; 1 mark for the correct complete answer.

Question 10 [2 marks]

Length + width = $50 \div 2 = 25$ cm.

Width = $25 - 16 = 9$ cm.

Suggested marking: 1 mark for valid working; 1 mark for the correct complete answer.

Question 11 [2 marks]

Full rectangle area = $14 \times 9 = 126$ cm².

Removed area = $5 \times 3 = 15$ cm².

Remaining area = $126 - 15 = 111$ cm².

Suggested marking: 1 mark for valid working; 1 mark for the correct complete answer.

Question 12 [2 marks]

9.45 a.m. to 10.45 a.m. = 1 hour.

10.45 a.m. to 11.20 a.m. = 35 minutes.

Journey = 1 hour 35 minutes.

Suggested marking: 1 mark for valid working; 1 mark for the correct complete answer.

Question 13 [4 marks]

(a) Usable rope = $7.5 - 0.3 = 7.2$ m.

Each piece = $7.2 \div 4 = 1.8$ m.

(b) Total length = $1.8 \times 3 = 5.4$ m.

Suggested marking: Parts (a) and (b): 1 method mark and 1 answer mark each.

Question 14 [4 marks]

Notebooks cost $4 \times \$2.85 = \11.40 .

Pens cost $3 \times \$1.60 = \4.80 .

Total cost = $\$11.40 + \$4.80 = \$16.20$.

Change = $\$20 - \$16.20 = \$3.80$.

Suggested marking: Up to 3 marks for the main calculation or reasoning steps; 1 mark for the correct final answer.

Question 15 [4 marks]

(a) Garden area = $18 \times 12 = 216 \text{ m}^2$.

Pond area = $4 \times 4 = 16 \text{ m}^2$.

Remaining area = $216 - 16 = 200 \text{ m}^2$.

(b) Outside perimeter = $2 \times (18 + 12) = 60 \text{ m}$.

Fence length = $60 - 3 = 57 \text{ m}$.

Suggested marking: Parts (a) and (b): 1 method mark and 1 answer mark each.