

WA1 Practice Paper

Whole numbers, order of operations and fractions

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. Write four million, seventy-six thousand and nine in numerals.

(1) 4 076 009

(2) 4 760 009

(3) 4 076 090

(4) 4 007 609

Answer: [1]

2. What is the value of the digit 8 in 5 823 146?

(1) 8000

(2) 80 000

(3) 800 000

(4) 8 000 000

Answer: [1]

3. Find the value of $36 - 18 \div 3 \times 2$.

- (1) 6
- (2) 12
- (3) 24
- (4) 30

Answer: [1]

4. Find $4\,680\,000 \div 1000$.

- (1) 468
- (2) 4680
- (3) 46 800
- (4) 468 000

Answer: [1]

5. Seven identical cakes are shared equally among 4 children. How much cake does each child get?

- (1) $\frac{4}{7}$
- (2) $1\frac{1}{4}$
- (3) $1\frac{3}{4}$
- (4) $2\frac{1}{4}$

Answer: [1]

6. Which decimal is equal to $\frac{3}{8}$?

- (1) 0.038
- (2) 0.375
- (3) 0.38
- (4) 3.8

Answer: [1]

Section B: Short Answer (12 marks)

Show your working and give units where needed.

7. Round 6 748 521 to the nearest ten thousand.

Answer: [2]

8. Calculate 705×48 .

Answer: [2]

9. Calculate $84 \div (3 + 4) + 5 \times 6$.

Answer: [2]

10. Calculate $\frac{5}{6} - \frac{1}{4}$. Give your answer in its simplest form.

Answer: [2]

11. A 9 m ribbon is cut into 8 equal pieces. Find the length of each piece as a mixed number.

Answer: [2]

12. Express $\frac{7}{12}$ as a decimal, correct to 2 decimal places.

Answer: [2]

Section C: Problem Sums (12 marks)

Show your working and give units where needed.

13. A school bought 28 packs of exercise books. Each pack contained 15 books. After 186 books were given out, the rest were shared equally among 6 classes. How many books did each class receive?

Answer: [4]

14. A box contains 150 beads. $\frac{2}{5}$ are red and $\frac{1}{3}$ of the remainder are blue. The rest are white.

(a) How many red beads are there? [2]

(b) How many white beads are there? [2]

Answer: [4]

15. Jia and Omar each had the same number of stickers. Jia gave away 84 stickers and Omar gave away 24 stickers. Omar then had 3 times as many stickers as Jia. How many stickers did each child have at first?

Answer: [4]

End of question paper - Total: 30 marks

WA1 Suggested Worked Solutions

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

Question 1 [1 mark]

Option 1. $4\,000\,000 + 76\,000 + 9 = 4\,076\,009$.

Suggested marking: 1 mark for the correct option.

Question 2 [1 mark]

Option 3. The digit 8 is in the hundred thousands place.

Suggested marking: 1 mark for the correct option.

Question 3 [1 mark]

Option 3. Divide and multiply from left to right: $18 \div 3 \times 2 = 12$. Then $36 - 12 = 24$.

Suggested marking: 1 mark for the correct option.

Question 4 [1 mark]

Option 2. Dividing by 1000 gives 4680.

Suggested marking: 1 mark for the correct option.

Question 5 [1 mark]

Option 3. Each child gets $\frac{7}{4} = 1\frac{3}{4}$ cakes.

Suggested marking: 1 mark for the correct option.

Question 6 [1 mark]

Option 2. $3 \div 8 = 0.375$.

Suggested marking: 1 mark for the correct option.

Question 7 [2 marks]

The thousands digit is 8, so round up.

Answer = 6 750 000.

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

Question 8 [2 marks]

$705 \times 40 = 28\,200$; $705 \times 8 = 5640$.

$28\,200 + 5640 = 33\,840$.

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

Question 9 [2 marks]

Brackets first: $3 + 4 = 7$.

$$84 \div 7 + 30 = 12 + 30 = 42.$$

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

Question 10 [2 marks]

$$\frac{5}{6} = \frac{10}{12} \text{ and } \frac{1}{4} = \frac{3}{12}.$$

$$\frac{10}{12} - \frac{3}{12} = \frac{7}{12}.$$

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

Question 11 [2 marks]

$$\text{Each piece} = 9 \div 8 = \frac{9}{8} \text{ m.}$$

$$\text{Length} = 1 \frac{1}{8} \text{ m.}$$

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

Question 12 [2 marks]

$$7 \div 12 = 0.58333\ldots$$

The third decimal digit is 3. Answer = 0.58.

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

Question 13 [4 marks]

$$\text{Total books} = 28 \times 15 = 420.$$

$$\text{Books remaining} = 420 - 186 = 234.$$

$$\text{Books per class} = 234 \div 6 = 39.$$

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

Question 14 [4 marks]

(a) Red beads = $150 \div 5 \times 2 = 60$.

(b) White beads = $150 \div 5 = 30$. (After drawing bar model)

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

Question 15 [4 marks]

Difference after giving away = $84 - 24 = 60$ stickers.

Omar has 3 units and Jia has 1 unit, so 2 units = 60.

Jia has 30 stickers left.

Each had $30 + 84 = 114$ stickers at first.

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