P3 Mathematics Practice Paper: Numbers and Place Value, Addition, Subtraction, Multiplication and Division, Fractions, Length, Mass and Capacity, Time and Money, Perimeter and Area

P3 | Mathematics | Time: 45 minutes | Total: 100 marks | 24 questions

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Part A: Numbers, Place Value, Addition and Subtraction (18 marks)

Show your working and write the units in your answer.

1. In the number 7,038, what is the place value of the digit 7? [4]

Answer: The digit 7 is in the thousands place, so its place value is 7,000.

2. What number is formed by 4 thousands, 6 hundreds, 0 tens and 9 ones? [4]

Answer: 4 thousands, 6 hundreds, 0 tens and 9 ones make 4,609.

3. Calculate 3,456 + 2,789. [5]

Answer: 3,456 + 2,789 = 6,245.

4. Calculate 8,000 - 3,476. [5]

Answer: After regrouping, 8,000 - 3,476 = 4,524.

Part B: Multiplication and Division Word Problems (18 marks)

Show your working and write the units in your answer.

5. A box holds 24 pencils. How many pencils are there in 7 boxes? [5]

Answer: 24 x 7 = 168, so there are 168 pencils.

6. 96 sweets are shared equally among 8 children. How many sweets does each child get? [4]

Answer: 96 / 8 = 12, so each child gets 12 sweets.

7. A book costs $38. How much do 6 books cost? [4]

Answer: 38 x 6 = 228, so the cost is $228.

8. An orchard has 5 rows of 18 trees. After 12 trees are removed, how many trees are left? [5]

Answer: 5 x 18 = 90; 90 - 12 = 78, so 78 trees are left.

Part C: Simple Fractions (16 marks)

Show your working and write the units in your answer.

9. A ribbon is cut into 8 equal parts. If 3 parts are removed, what fraction of the whole ribbon is left? [4]

Answer: 1 - 3/8 = 5/8, so 5/8 of the ribbon is left.

10. Which fraction is larger, 3/7 or 5/7? [4]

Answer: With the same denominator, the larger numerator gives the larger fraction, so 5/7 is larger.

11. Calculate 1/4 + 2/4. [4]

Answer: The denominators are the same, so add the numerators: 1/4 + 2/4 = 3/4.

12. A box has 12 sweets. If 1/3 of the box is eaten, how many sweets are eaten? [4]

Answer: 12 / 3 = 4, so 4 sweets are eaten.

Part D: Length, Mass and Capacity (16 marks)

Show your working and write the units in your answer.

13. How many centimetres are there in 2 m 35 cm? [4]

Answer: 2 x 100 + 35 = 235, that is 235 cm.

14. How many grams are there in 3 kg 250 g? [4]

Answer: 3 x 1000 + 250 = 3,250, that is 3,250 g.

15. A rope is 5 m long. After 180 cm is cut off, how many centimetres are left? [4]

Answer: 5 m = 500 cm; 500 - 180 = 320, so 320 cm is left.

16. A bucket holds 2 L 500 mL of water. After filling 4 bottles of 600 mL each, how many millilitres are left in the bucket? [4]

Answer: 2 L 500 mL = 2500 mL; 4 x 600 = 2400; 2500 - 2400 = 100, so 100 mL is left.

Part E: Time and Money (16 marks)

Show your working and write the units in your answer.

17. How much time passes from 9:45 a.m. to 1:20 p.m.? [4]

Answer: 1:20 p.m. is 13:20; from 9:45 to 13:20 is 3 hours 35 minutes.

18. A film runs for 2 hours 15 minutes and starts at 18:40. When does it end? [4]

Answer: 18:40 plus 2 hours 15 minutes = 20:55, so it ends at 20:55.

19. A pen costs $12.5. How much do 3 pens cost? [4]

Answer: 12.5 x 3 = 37.5, so the cost is $37.5.

20. Ming has $100. He spends $46.5 on a book and $28 on a notebook. How much money is left? [4]

Answer: 100 - 46.5 - 28 = 25.5, so $25.5 is left.

Part F: Perimeter and Area (16 marks)

Show your working and write the units in your answer.

21. A rectangle is 12 cm long and 7 cm wide. Find its perimeter. [4]

Answer: (12 + 7) x 2 = 38, so the perimeter is 38 cm.

22. A square has sides of 9 cm. Find its area. [4]

Answer: 9 x 9 = 81, so the area is 81 square centimetres.

23. A rectangle has an area of 48 square centimetres and a length of 8 cm. Find its width. [4]

Answer: 48 / 8 = 6, so the width is 6 cm.

24. A square flower bed has sides of 6 m. Fencing is put around it. How many metres of fencing are needed? [4]

Answer: 6 x 4 = 24, so 24 m of fencing is needed.
