P2 Mathematics Practice Paper: Place Value, Addition and Subtraction, Multiplication and Division, Length Mass and Capacity, Money and Time, Shapes and Data Handling (100 marks)

P2 | Mathematics | Time: 60 minutes | Total: 100 marks | 24 questions

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Part A: Place Value (16 marks)

Write the numbers and units; in comparison questions label the largest and the smallest answer.

1. In the number 458, what is the hundreds digit and what is its value? [4]

Answer: Answer: the hundreds digit is 4 and its value is 400.

2. Counting from 296 to 305 in order, including both 296 and 305, how many numbers are counted? [4]

Answer: Answer: 10 numbers (305 - 296 + 1).

3. Arrange 638, 683 and 608 from the largest to the smallest, and find the difference between the largest and the smallest number. [4]

Answer: Answer: from largest to smallest 683, 638, 608; the difference is 75.

4. The sequence 5, 10, 15, 20, ... increases by 5 each time. Write the next two numbers and find the 10th number. [4]

Answer: Answer: the next two numbers are 25 and 30; the 10th number is 50 (5 x 10).

Part B: Addition and Subtraction (16 marks)

Write the number sentence and state the unit of every answer.

5. A library had 275 books. After 138 books were borrowed, 96 new books were bought. How many books does the library have now? [4]

Answer: Answer: 233 books (275 - 138 + 96).

6. Ming has 306 dollars. After spending 129 dollars his mother gives him 85 dollars more. How much money does he have now? [4]

Answer: Answer: 262 dollars (306 - 129 + 85).

7. Three classes have 128, 135 and 142 pupils. How many pupils are there altogether, and how many more pupils are in the largest class than in the smallest class? [4]

Answer: Answer: 405 pupils altogether (128 + 135 + 142); the difference is 14 pupils (142 - 128).

8. A number plus 147 gives 302. Find the number. [4]

Answer: Answer: 155 (302 - 147).

Part C: Multiplication and Division (16 marks)

Write the multiplication or division sentence and state the unit.

9. Each box holds 6 pencils. How many pencils are there in 7 boxes? How many boxes are needed for 54 pencils? [4]

Answer: Answer: 42 pencils in 7 boxes (6 x 7); 54 pencils fill 9 boxes (54 / 6).

10. 45 apples are shared equally among 5 children. How many does each child get? If the same apples are shared equally among 9 children, how many does each get? [4]

Answer: Answer: 9 apples each for 5 children (45 / 5); 5 each for 9 children (45 / 9).

11. Using 4 x 8 = 32, write one related multiplication sentence and two related division sentences, and explain how they are connected. [4]

Answer: Answer: 8 x 4 = 32; 32 / 4 = 8; 32 / 8 = 4. They belong to the same fact family, so the same numbers give two multiplication and two division sentences.

12. A toy costs 25 dollars. How much do 4 toys cost? How much change is left from 150 dollars? [4]

Answer: Answer: 100 dollars (25 x 4); change 50 dollars (150 - 100).

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

Show the conversion steps and state the unit of every answer.

13. How many centimetres are there in 3 metres? Express 250 centimetres in metres and centimetres. [4]

Answer: Answer: 300 centimetres (3 x 100); 250 cm = 2 m 50 cm.

14. A rope is 1 metre 20 centimetres long. After 45 centimetres are cut off, how many centimetres are left? [4]

Answer: Answer: 75 centimetres (120 - 45).

15. An apple has a mass of 180 grams. What is the total mass of 5 apples? With a 60 gram box, what is the total mass? [4]

Answer: Answer: 900 grams for the apples (180 x 5); 960 grams with the box (900 + 60).

16. A bottle holds 2 litres of water. After 750 millilitres are poured out, how many millilitres are left? [4]

Answer: Answer: 1250 millilitres (2000 - 750).

Part E: Money and Time (18 marks)

Write the number sentence; for time questions state the starting and finishing times.

17. Mother has three 20 dollar notes and four 5 dollar coins. How much money does she have altogether? [4]

Answer: Answer: 80 dollars (20 x 3 + 5 x 4).

18. A book costs 68 dollars and a pen costs 15 dollars. How much change is left from 100 dollars? [4]

Answer: Answer: 83 dollars in total (68 + 15); change 17 dollars (100 - 83).

19. From 8:45 a.m. to 10:20 a.m., how many minutes have passed? Express the answer in hours and minutes. [5]

Answer: Answer: 95 minutes, that is 1 hour 35 minutes.

20. There are 3 lessons a day, each 40 minutes long, with a 15 minute break between lessons. How many minutes pass from the start of the first lesson to the end of the third lesson? [5]

Answer: Answer: 150 minutes (40 x 3 + 15 x 2), that is 2 hours 30 minutes.

Part F: Shapes and Data Handling (18 marks)

Write the number sentence or the name of the shape, and state the unit.

21. A rectangle is 8 centimetres long and 5 centimetres wide. Find its perimeter. [4]

Answer: Answer: 26 centimetres ((8 + 5) x 2).

22. In a pictogram each symbol stands for 2 people. Apples have 6 symbols and bananas have 4 symbols. How many people like apples and how many like bananas, and what is the difference? [4]

Answer: Answer: 12 people for apples (2 x 6); 8 for bananas (2 x 4); the difference is 4 people.

23. A square has sides of 7 centimetres. Find its perimeter. If 4 such squares are placed in one row, what is the perimeter of the rectangle formed? [5]

Answer: Answer: the square has perimeter 28 centimetres (7 x 4); the rectangle is 28 cm by 7 cm with perimeter 70 centimetres ((28 + 7) x 2).

24. How many faces, edges and vertices does a cuboid have? What shape are the faces of a cube? [5]

Answer: Answer: a cuboid has 6 faces, 12 edges and 8 vertices; the 6 faces of a cube are all squares.