P5 Mathematics Practice Paper: Fractions, Decimals, Percentages, Area, Volume, Speed and Averages

P5 | Mathematics | Time: 60 minutes | Total: 100 marks | 24 questions

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Part 1: Fractions (16 marks)

Work out each answer in its simplest form. 4 marks each.

1. Work out 3/4 + 5/8. [4]

2. Work out 2 1/3 x 3/4. [4]

3. Work out 5/6 divided by 2/9. [4]

4. A rope is 12 m long. 3/8 of it is used. How many metres are left? [4]

Part 2: Decimals and Percentages (16 marks)

Work out each answer. 4 marks each.

5. Work out 0.6 x 2.5. [4]

6. What is 45% of 240? [4]

7. A jacket costs $320 and is sold at 15% off. What is the selling price? [4]

8. Change 7/20 into a percentage. [4]

Part 3: Area and Volume (16 marks)

Find the area or volume. 4 marks each.

9. A rectangle is 12 cm long and 7 cm wide. Find its area. [4]

10. A triangle has base 16 cm and height 9 cm. Find its area. [4]

11. A cuboid is 8 cm by 5 cm by 4 cm. Find its volume. [4]

12. A circle has radius 7 cm. Find its area (take pi = 22/7). [4]

Part 4: Speed and Time (16 marks)

Work out each answer. 4 marks each.

13. A car travels 150 km in 2.5 hours. Find its average speed. [4]

14. A train travels at 72 km/h for 45 minutes. Find the distance. [4]

15. Ming walks 1.2 km in 15 minutes. Find the average speed in m/min. [4]

16. A van travels 260 km in 4 hours. Find its average speed. [4]

Part 5: Data Handling and Averages (18 marks)

Work out each answer. Note the marks for each question.

17. Find the mean of 12, 15, 9, 18 and 16. [4]

18. Find the median of 7, 3, 9, 5, 11 and 13. [4]

19. Find the mode of 4, 6, 6, 7, 8, 6 and 9. [5]

20. Five test scores are 78, 85, 90, 82 and x, and the mean is 84. Find x. [5]

Part 6: Word Problems (18 marks)

Show your working. Note the marks for each question.

21. Ann buys 3 pens at $12.5 each and 2 notebooks at $18 each. How much does she pay? [4]

22. A class has 40 students and 45% of them are girls. How many boys are there? [4]

23. A tank is 60 cm by 40 cm by 30 cm and is 3/4 full of water. Find the volume of water in litres. [5]

24. An item costs $480. It is reduced by 20%, then by a further $50. Find the final price. [5]
