Problem Solving & Word Problems: Hard Practice Paper 2

Q1. I think of a number, divide it by 3 and then add 7. The answer is 19. What was my number?

A. 12 B. 26 C. 33 D. 36 E. 48

Q2. Tim has £4.35 made up of 30 coins, all of which are 20p or 5p coins. How many 20p coins does he have?

A. 11 B. 15 C. 17 D. 19 E. 21

Q3. The mean of four numbers is 18. Three of the numbers are 15, 20 and 22. What is the fourth number?

A. 13 B. 15 C. 16 D. 17 E. 19

Q4. In a sale everything is reduced by 30%. A bag now costs £42. What was its original price?

A. £54.60 B. £56.00 C. £60.00 D. £63.00 E. £72.00

Q5. Sam is 5 years older than Tom. Together their ages add up to 33. How old is Tom?

A. 11 B. 13 C. 14 D. 16 E. 19

Q6. Two numbers add up to 45 and one of them is twice the other. What is the larger number?

A. 15 B. 20 C. 25 D. 30 E. 35

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Q7. There are fewer than 50 sweets in a jar. Shared between 7 children there are 3 left over, and shared between 5 children there is 1 left over. How many sweets are there?

A. 17 B. 24 C. 31 D. 38 E. 45

Q8. A tank is three fifths full. After 12 litres are used it is one third full. What is the capacity of the tank?

A. 30 litres B. 36 litres C. 40 litres D. 45 litres E. 60 litres

Q9. Five workers build a wall in 12 days. How long would 3 workers take to build the same wall?

A. 15 days B. 18 days C. 20 days D. 24 days E. 36 days

Q10. A taxi charges £2.50 plus £1.20 for each kilometre travelled. How much does a 15 km journey cost?

A. £18.00 B. £18.50 C. £19.50 D. £20.50 E. £21.00

Q11. A taxi charges £2.50 plus £1.20 for each kilometre. A passenger pays £14.50. How far did they travel?

A. 8 km B. 10 km C. 12 km D. 12.5 km E. 14 km

Q12. A lawn measures 10 m by 6 m. A path 1 m wide is laid all the way around the outside of the lawn. What is the area of the path?

A. 16 m² B. 32 m² C. 36 m² D. 40 m² E. 60 m²

Q13. A journey started at 21:45 and lasted 8 hours 40 minutes. At what time did it end?

A. 05:25 B. 06:05 C. 06:25 D. 06:45 E. 07:05

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Q14. A bus holds 38 passengers. What is the smallest number of buses needed to carry 300 people?

A. 6 B. 7 C. 8 D. 9 E. 10

Q15. A tile pattern uses 6 tiles for the first shape, 11 for the second and 16 for the third. How many tiles are needed for the 20th shape?

A. 96 B. 101 C. 106 D. 111 E. 120

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