Problem Solving & Word Problems: Hard Practice Paper 3

Q1. I halve a number, add 9 and then multiply by 2. The answer is 38. What was my number?

A. 10 B. 14 C. 20 D. 28 E. 40

Q2. Three apples and two pears cost £1.85 altogether. An apple costs 35p. How much does one pear cost?

A. 25p B. 30p C. 35p D. 40p E. 45p

Q3. The mean of five numbers is 20. One of the numbers is increased by 15 and the others stay the same. What is the new mean?

A. 21 B. 22 C. 23 D. 25 E. 35

Q4. A jacket is reduced by 15% in a sale and now costs £102. What was the original price?

A. £110 B. £117 C. £120 D. £125 E. £130

Q5. In 4 years' time Mia will be twice as old as she was 6 years ago. How old is Mia now?

A. 10 B. 14 C. 16 D. 18 E. 20

Q6. Kate spends two fifths of her money on a game and £12 on a book, leaving her with £18. How much money did she have at the start?

A. £40 B. £45 C. £50 D. £55 E. £60

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Q7. In a club three eighths of the members are girls. There are 40 more boys than girls. How many members are there altogether?

A. 100 B. 120 C. 140 D. 160 E. 180

Q8. A number between 40 and 60 leaves a remainder of 2 when divided by 5 and a remainder of 3 when divided by 7. What is the number?

A. 42 B. 47 C. 52 D. 57 E. 59

Q9. Eight people can finish a job in 6 hours. They all work for 2 hours and then 4 of them leave. How much longer do the rest need to finish the job?

A. 4 hours B. 6 hours C. 8 hours D. 10 hours E. 12 hours

Q10. A room measures 5 m by 4 m. Carpet costs £18 per square metre and fitting costs a further £45. What is the total cost?

A. £360 B. £380 C. £405 D. £420 E. £450

Q11. Adult tickets cost £8 and child tickets cost £5. A group buys 12 tickets for £81. How many adult tickets are there?

A. 5 B. 6 C. 7 D. 8 E. 9

Q12. A film lasts 2 hours 35 minutes and must finish by 21:00. What is the latest time it can start?

A. 18:05 B. 18:25 C. 18:35 D. 18:45 E. 19:25

Q13. The mean age of 4 children is 9 years. A fifth child aged 14 joins them. What is the new mean age?

A. 9.5 B. 10 C. 10.5 D. 11 E. 11.5

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Q14. What is the smallest number greater than 50 that is a multiple of both 6 and 8?

A. 54 B. 56 C. 64 D. 72 E. 96

Q15. Pens cost £1.20 each, or £6 for a pack of 6. What is the cheapest way to buy exactly 20 pens, and how much does it cost?

A. £20.40 B. £21.60 C. £22.80 D. £24.00 E. £25.20

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