Problem Solving & Word Problems: Hard Practice Paper 5

Q1. I subtract 7 from a number, divide the result by 3 and then add 10. The answer is 16. What was my number?

A. 11 B. 18 C. 25 D. 32 E. 43

Q2. Two coffees and three cakes cost £11.40 altogether. A coffee costs £2.10. How much does one cake cost?

A. £2.10 B. £2.20 C. £2.40 D. £2.60 E. £3.60

Q3. The mean of eight numbers is 12.5. What is the total of all eight numbers?

A. 80 B. 96 C. 100 D. 104 E. 120

Q4. After a discount of 20% a coat costs £68. What was its price before the discount?

A. £78 B. £81.60 C. £85 D. £88 E. £90

Q5. A mother and daughter's ages add up to 54 years. The mother is 5 times as old as her daughter. How old is the daughter?

A. 6 B. 9 C. 10 D. 12 E. 45

Q6. In a school half the pupils walk and a third cycle. The remaining 12 pupils come by bus. How many pupils are there altogether?

A. 36 B. 48 C. 60 D. 72 E. 84

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Q7. £360 is shared between two clubs in the ratio 3 : 5. The club with the smaller share then spends £45. How much does it have left?

A. £75 B. £90 C. £100 D. £135 E. £180

Q8. A number between 20 and 40 leaves a remainder of 1 when divided by 4 and a remainder of 2 when divided by 5. What is the number?

A. 22 B. 27 C. 32 D. 33 E. 37

Q9. Three painters take 8 days to paint a house. How many painters would be needed to finish the same job in 2 days?

A. 6 B. 9 C. 12 D. 16 E. 24

Q10. A lawn measures 12 m by 7 m and contains a pond measuring 2 m by 3 m. Turf for the rest of the lawn costs £6 per square metre. What is the cost of the turf?

A. £432 B. £450 C. £468 D. £486 E. £504

Q11. A gym charges a £25 joining fee and then £18 every month. How much does it cost for one year?

A. £216 B. £223 C. £233 D. £241 E. £259

Q12. A programme lasting 1 hour 50 minutes ended at 00:20. At what time did it start?

A. 22:10 B. 22:30 C. 22:50 D. 23:10 E. 23:30

Q13. Adult tickets cost £12 and child tickets cost £7. A family of 6 pays £52 altogether. How many children are in the family?

A. 2 B. 3 C. 4 D. 5 E. 6

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Q14. Three consecutive even numbers add up to 66. What is the largest of the three?

A. 20 B. 22 C. 24 D. 26 E. 28

Q15. Juice costs £1.40 for a 1 litre bottle or £3.60 for a 3 litre bottle. How much is saved by buying 6 litres in 3 litre bottles instead of 1 litre bottles?

A. 80p B. £1.00 C. £1.20 D. £1.40 E. £2.40

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