Fractions, Decimals & Percentages: Hard Practice Paper 1

Q1. A jumper is reduced by 20% in a sale and now costs £36. What was the original price?

A. £43.20 B. £44 C. £45 D. £46.80 E. £48

Q2. 3/7 of a number is 21. What is 5/7 of the same number?

A. 25 B. 28 C. 30 D. 35 E. 42

Q3. 240 is increased by 15%, and the result is then decreased by 15%. What is the final answer?

A. 230 B. 234.6 C. 235 D. 240 E. 244.8

Q4. What is 5/8 of 3/5 of 400?

A. 120 B. 135 C. 150 D. 160 E. 180

Q5. Which of these is the greatest?

A. 4/7 B. 0.58 C. 0.583 D. 7/12 E. 58.5%

Q6. A number is increased by 25% to give 150. What was the number?

A. 112.5 B. 120 C. 125 D. 130 E. 187.5

Q7. What is 1 1/4 ÷ 1/2?

A. 5/8 B. 1 1/2 C. 2 D. 2 1/2 E. 3 1/2

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Q8. In a class, 3/5 of the pupils are girls. Of those girls, 1/3 wear glasses. What fraction of the whole class are girls who wear glasses?

A. 1/8 B. 1/5 C. 4/15 D. 3/8 E. 2/5

Q9. £500 is put into a savings account that pays 10% interest each year. The interest is added at the end of each year. How much is in the account after 2 years?

A. £550 B. £600 C. £605 D. £610 E. £620

Q10. What is 0.24 ÷ 0.6?

A. 0.04 B. 0.144 C. 0.4 D. 1.44 E. 4

Q11. The price of a game rises from £40 to £46. What is the percentage increase?

A. 6% B. 12% C. 13% D. 15% E. 20%

Q12. Which fraction lies exactly halfway between 1/4 and 1/2?

A. 1/3 B. 3/8 C. 2/5 D. 5/12 E. 7/16

Q13. What is 2/3 + 3/4 − 1/2?

A. 5/12 B. 3/4 C. 11/12 D. 1 E. 1 1/4

Q14. 15% of a number is 12. What is 40% of the same number?

A. 24 B. 28 C. 32 D. 36 E. 45

Q15. A tank is 3/8 full. After 15 litres of water are added, the tank is 3/4 full. What is the capacity of the tank?

A. 24 litres B. 30 litres C. 36 litres D. 40 litres E. 45 litres

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