Fractions, Decimals & Percentages: Hard Practice Paper 6

Q1. After a 15% discount, a bicycle costs £170. What was its price before the discount?

A. £185 *B.* £195.50 *C.* £200 *D.* £204 *E.* £212.50

Q2. A number is increased by 35% and the result is 108. What was the number?

A. 70.2 *B.* 73 *C.* 75 *D.* 80 *E.* 85

Q3. £200 is increased by 10%, and the result is then decreased by 10%. What is the final amount?

A. £196 *B.* £198 *C.* £200 *D.* £202 *E.* £220

Q4. £800 is put into an account paying 5% interest each year, and the interest is added to the account at the end of each year. How much is in the account after 2 years?

A. £840 *B.* £880 *C.* £882 *D.* £890 *E.* £920

Q5. A car is worth £12,000. Its value falls by 25% in the first year and then by 20% in the second year. What is it worth after two years?

A. £6,600 *B.* £7,200 *C.* £7,800 *D.* £8,400 *E.* £9,000

Q6. A shop buys a toy for £45 and sells it for £54. What is the percentage profit?

A. 9% *B.* 16.7% *C.* 20% *D.* 25% *E.* 45%

myfreeschool

Q7. A laptop costs £480 including VAT at 20%. What was the price before VAT was added?

A. £384 *B.* £400 *C.* £420 *D.* £440 *E.* £576

Q8. Which is greater, 15% of 240 or 24% of 150?

A. 15% of 240, by 6

B. 24% of 150, by 6

C. 15% of 240, by 12

D. 24% of 150, by 12

E. They are exactly equal

Q9. In a class 40% of the pupils are boys. There are 18 girls. How many pupils are in the class altogether?

A. 24 *B.* 30 *C.* 36 *D.* 45 *E.* 50

Q10. The table shows two offers on the same £120 tablet. Which is cheaper, and by how much?

Shop	Offer
Shop P	One third off
Shop Q	30% off, then £5 off at the till

A. Shop Q, by £1

B. Shop P, by £1

C. Shop P, by £5

D. Shop Q, by £5

E. They cost the same

Q11. A pupil's test score rises from 60% to 75%. By what percentage has the score increased?

A. 15% *B.* 20% *C.* 25% *D.* 40% *E.* 75%

myfreeschool

Q12. A £60 item is increased in price by 20%, and the new price is then reduced by 25%. What is the final price?

A. £51 *B.* £54 *C.* £57 *D.* £60 *E.* £63

Q13. After spending 2/5 of her money, Mia has £27 left. How much did she have to start with?

A. £37.80 *B.* £42 *C.* £45 *D.* £54 *E.* £67.50

Q14. £1,200 earns simple interest at 4% each year, so the same interest is paid every year. How much money is there after 3 years?

A. £1,248 *B.* £1,296 *C.* £1,332 *D.* £1,344 *E.* £1,440

Q15. A shop reduces a £250 television by 30%, and then VAT at 20% is added to the reduced price. What is the final price?

A. £175 *B.* £196 *C.* £210 *D.* £225 *E.* £250

myfreeschool