Mixed Percentages **Answers**

1. Increase 485 by 14%.

   1.14 × 485 = 552.9

2. Calculate 35% of 80.

   0.35 × 80 = 28

3. A coat, originally costing £65, was reduced by 20%. How much does the coat now cost?

   0.80 × 65 = £52

4. I bought a bike for £120. Three months later, I then sold the bike for £150. What was my profit as a percentage of the original price?

   150 – 120 = 30

   $\frac{30}{120}$ **× 100 = 25%**

5. Elizabeth bought a laptop. She paid £450 for her laptop after it had been reduced by 20%.

   Saiyid bought his laptop in a 25% off sale. It originally cost £520.

   Who has saved more money? Show your working clearly.

   Elizabeth

   $\frac{450}{0.8}$ **= £562.50**

   £562.50 – £450 = £112.50 saving

   Saiyid

   0.75 × 520 = £390

   520 – 390 = £130 saving

   Saiyid saved more money.

6. Bus fares go up by 12%. Before the increase, my journey cost £3. How much will the bus fare now be?

   1.12 × 3 = £3.36

7. Rebecca scored 45 out of 80 on a maths test.

   Natalie scored 55 out of 100 on a science test.

   Who scored the highest percentage of marks?

   $\frac{45}{80}$ **× 100 = 56.25%**

   $\frac{55}{100}$ **× 100 = 55%**

   Rebecca scored the highest percentage of marks.

8. The price of a washing machine is £325 after a 20% discount is applied. What was the original price?

   $\frac{325}{0.80}$ **= £406.25**

9. The cost of a camera is £350 plus VAT. The rate of VAT is 20%. What is the total price for the camera?

   350 × 1.20 = £420

10. Write the decimal multiplier that you would use to work out the value after a decrease of 0.3%.

    0.997

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