Percentages

1. The price of an Ipod in a shop is £60. In a sale this price is decreased by 15%. Find the new price.

2. The price of a digital camera was reduced by 15% to £51. Find the original price.

3. The price of a Burberry woollen jumper in a sale is £45. It has been reduced by 40%. What was the original price?

4. In a sale all items were reduced by 40%. If a Ted baker cardigan cost £75 before the sale, find the sale price.

5. A shop reduced Playstation 2's by 25% when the Playstation 3 was launched. The sale price is £75.

   a) Find 25% of £75
   b) Increase £75 by 25%
   c) What is the original price of the Playstation 2?
   d) Explain why the answers to parts (b) and (c) are not the same.

6. In the UK, VAT is 17.5%. When you buy an item from a shop the VAT is already added into the purchase price. If you buy a nice chocolate bar costing £1, how much VAT are you paying?

7. By selling a car for £9,800 a dealer made 20% profit. How much did he pay for the car?

8. To clear goods during a sale, a shopkeeper reduced them by 10%. The sale price was £3.60. What was the original price?

Percentages - Answers

1. The price of an Ipod in a shop is £60. In a sale this price is decreased by 15%. Find the new price. £51

2. The price of a digital camera was reduced by 15% to £51. Find the original price. £60

3. The price of a Burberry woollen jumper in a sale is £45. It has been reduced by 40%. What was the original price? £75

4. In a sale all items were reduced by 40%. If a Ted baker cardigan cost £75 before the sale, find the sale price. £45

5. A shop reduced Playstation 2's by 25% when the Playstation 3 was launched. The sale price is £75.

   a) Find 25% of £75 £18.75
   b) Increase £75 by 25% £93.75
   c) What is the original price of the Playstation 2? £100
   d) Explain why the answers to parts (b) and (c) are not the same. 25% of £75 vs 25% of £100, or, to get £100 in part (b) you need to increase by 33.3%

6. In the UK, VAT is 17.5%. When you buy an item from a shop the VAT is already added into the purchase price. If you buy a nice chocolate bar costing £1, how much VAT are you paying? 14.89p ≈ 15p

7. By selling a car for £9,800 a dealer made 20% profit. How much did he pay for the car? £8,167

8. To clear goods during a sale, a shopkeeper reduced them by 10%. The sale price was £3.60. What was the original price? £4