Reverse Percentages

1) Apple is having a 20% off sale. I bought my new Ipod for £40, how much was it originally?

2) Christmas is on its way, so the price of a box of Thornton's chocolates has been increased by 15%!! A box of Thornton's Continental now costs £17.25. How much did it cost originally?

3) The price of all oyster card season tickets increased by 4%. The price of a season ticket from zone 1 to zone 4 increased to £98.80. What was the price before this increase?

4) A special bottle of coke contains 10% more than a normal bottle. The special bottle contains 660 ml. How much does the normal bottle contain?

5) Katie gets a 20% pay rise. Her new wage is £264 per week. What was her wage before the pay rise?

6) Ivan Ukhov the Olympics high jump gold medallist jumps 2.4 metres. This is 4% lower than the best height he can jump. What is the best height he can jump?

7) A packet of Hobnobs claims to be 24% bigger!! It now contains 31 biscuits. How many did it have before?

8) Delboy sells his goods at Peckham market for £66.70 making a 15% profit. How much did he pay for the goods when he bought them?

Extension

1) During a mid-season sale a shop keeper sold 60% of his Kindles. He then found that he was left with 50 Kindles. How many did he have in stock to begin with?

2) Jacob answered 80% of the questions in a test correctly. He answered 32 of the questions correctly. Work out the total number of questions in the test.

3) In a class there are 9 people absent. This is 20% of the class missing out on vital mathematics!

   How many are there in the class when no one in the class is ill?

   How many are in class today?

4) A bowl of Cheerios provides 16.2 mg of vitamin C. This is 24% of the recommended daily intake. What daily intake of vitamin C is recommended?

5) Rosie sells her laptop to John and makes a 15% profit. John then sells the laptop to Michael for £391. John makes a 15% loss. How much did John pay for the laptop?

Answers

1) £50

2) £15

3) £95

4) 600ml

5) £220

6) 2.5m

7) 25 biscuits

8) £58

9) 75kg

10) £12,000

EXT

1) 125

2) 160 questions

3) 45 and 36

4) 67.5g

5) £460