



Percentages – Questions

- Q1) a) The number of girls in a school increased by 5% between 2015 and 2017. If the number of girls was 420 in 2017, how many girls were there in 2015?
- b) Tom sold his one year old car for £14,300 which was a 15% decrease from what he paid for it. What was the original price of the car?
- c) Peter sells his guitar to Sarah for 20% less than the £245 he paid for it. How much does Sarah pay for the guitar?
- d) A special offer on lemonade means that customers get 10% extra free. If this special offer bottle contains 600 ml, how much does a standard bottle contain?
- Q2) a) Gary invests £7,000 for 4 years at 3.5% compound interest. How much compound interest was paid on his investment?
- b) A ball is dropped from a building 125 m high. After each bounce it is at 25% of its previous height. Calculate the height of the ball after 4 bounces.
- c) Joanne is considering an investment of £700 at 3% compound interest over 3 years. She wants to know how much more interest she'll earn than if the investment was simple interest. Calculate this value?
- d) The population of a city is 245,000 in 2017. It is expected that the population will grow at 4% a year for the next 3 years. What will the population be in 2020?



Percentages – Solutions

Q1) a) 400

b) £16,824

c) £196

d) 545 *ml*

Q2) a) £1,033

b) 39.55 *m*

c) She will earn £2 more interest if it is compounded.

d) 275,592