

**(1) Simple and Compound Interest (2) Multipliers and (3) Percentage Change - www.m4ths.com**

- (1) Write the multiplier to find 18% of a number
  - (2) Write down the multiplier to increase a quantity by 23%
  - (3) Fred invests £800 in an account paying 5% per year simple interest. Find the value of his investment after 6 years.
  - (4) A boat costs £300 new and is sold for £240 a few years later. Find the % decrease in its value.
  - (5) Write down the multiplier to decrease a quantity by 12%
  - (6) Jim invests £900 in a bank account paying 6% COMPOUND interest for 4 years. Find the value of his investment after 4 years.
  - (7) Shane invests £500 in a bank paying 2% interest for the first year and 10% COMPOUND for all other years AFTER that. Find the value of his investment after 5 years.
  - (8) A hat was bought for £125 and sold for £130. Find the percentage increase in its value.
  - (9) Write down the multiplier used to increase a quantity by 65%
  - (10) Julie invests £200 in a savings account paying 8% simple interest a year. Find the value of her investment after 7 years.
  - (11) A boat decreases in value by 30% given that its original value was £700. Find the new value of the boat.
  - (12) Write down the multiplier used to increase a value by 4.5%
  - (13) Write down the multiplier used to decrease a value by 5.5%
  - (14) Janet invests £1200 in a bank paying 1.5% compound interest a year for 12 years. Find the value of her investment after 12 years.
  - (15) A hat increases in value from £140 to £168. Find the % increase in its value.
  - (16) The value of a house falls from \$400'000 to \$120'000 overnight. Find the % decrease in its value.
  - (17) Jaiden invests £600 in a bank paying simple interest at 4% a year. Kiesha invests £550 in a bank paying compound interest of 6%. Who has the most money after 4 years and by how much?
  - (18) A car falls in price by 20% and then falls in price again by a further 5%. Find the value of a car that started at £32000.
  - (19) Write down the multiplier to increase a quantity by 17.3%
  - (20) Julie scores 30 in her first test and 42 in her next test. Find the % increase in her score.
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- (1) Fred invests £800 in a bank paying 7% simple interest. Find the value of his investment after 5 years
  - (2) Write down the multiplier to increase a value by 36%
  - (3) A hat increases in value from £40 to £48. Find the % increase in its value.