

- (1) Write 0.4 as a percentage
- (2) Write  $\frac{3}{5}$  as a percentage
- (3) Find 10% of £40
- (4) Find 0.1% of 30
- (5) Increase £10 by 15%
- (6) Decrease £40 by 9%
- (7) Write 12 as a percentage of 20
- (8) Write 17 as a percentage of 21. Give your answer to 2 decimal places.
- (9) Kelly scores 34 out of 41 in an exam. What percentage did she get?
- (10) Fred buys a painting for £90 and sells it for £120. What was the percentage increase in its value?
- (11) Jane buys a car for £1500 and sells it for £1300. (a) By how much has its value decreased as a percentage? (b) What % of its original value is it now worth?
- (12) Jim buys a T shirt in the sale. The price of the T shirt after a 15% discount is £46.75. What was the original price of the T shirt?
- (13) Sally has a wage rise. After a 12% increase in her weekly salary she now earns £408.80 a week. How much did Sally earn before the increase?
- (14) Write down the multiplier used to increase a quantity by 10%
- (15) Write down the multiplier used to decrease a quantity by 8%
- (16) Write down the multiplier to decrease a quantity by 14.5%
- (17) Janet has a bank account that pays simple interest. She invests £400 at a rate of 5% per annum. How much will she have in her account after 8 years?
- (18) James also has a bank account. James invests £500 at a rate of 5% but this time the interest is compounded. How much will James have in his account after 4 years?
- (19) Fred and Bob share money in the ratio 3:5. What percentage of the share does Bob have?
- (20) In a school the ratio of boys to girls is 2:3. Thirty % of the boys in the school like rugby. What percentage of the students in the school are boys who don't like rugby?
- (21) A rock decays at a rate of 4% per year. The initial mass of the rock is 38kg. (a) What is the mass of the rock after 6 years? (b) How long will it take for the rock to have a mass of less than 6kg?
- (22) In a school 40% of the students are girls, the rest are boys. 20% of the girls at the school leave. What % of the students at the school are boys after the girls leave?