

Percentages and Ratio Revision

- 1) Check that you have a NC and C method for the following:
- a) find 23% of £56
 - b) increase 720m by 8%
 - c) decrease 160kg by 34%
 - d) find the percentage decrease when I reduce in mass from 135kg to 120kg
 - e) I invest my money in a bank account at 4% interest and after a year it is worth £26000. How much did I invest?
 - f) I lose 20% of my money and have £48000 left, how much did I have originally?

2) I invest £12,000 in two different bank accounts with compound interest

A: 3% for 5 years

B: 5% for 3 years

Which gives the highest amount of money and by how much?

3) Simplify these ratios

a) 14 : 35

b) 6 : 9 : 18

c) 0.3 : 0.24

d) 1.2km : 480m

4) Divide £240 in the ratio 2: 5: 1

5) In a class the ratio of boys to girls is 2:3, if there are 16 boys, how many girls are there?

6) On a map of scale 1 : 15000, a road is 1.3cm long, how long is it in real life?

7) A parking lot is 1.2km long in real life, how long would it be on a map of scale 1 : 20000?

8) The ratio of boys to girls in a school was 4:3.

A lot of girls joined the school and the ratio is now 6:7.

Find the percentage increase in the number of girls at the school to the nearest %

9) I increase one side of a rectangle by 10% and the other by 20%.

Find the overall percentage change in the area of the rectangle.

1) £12.88 b) 777.6m c) 105.6kg d) 11.1% e) 25000 f) 60000 2) A by £19.79 3) 2:5

b) 2:3:6 c) 5:4 d) 5:2 4) £60, £150, £30 5) 24 6) 195m 7) 6cm 8) 56% 9) 32% inc.