AQA, OCR, Edexcel

GCSE

GCSE Maths

Ratio and Percentages Answers

Name:

MME

Mathsmadeeasy.co.uk

Total Marks: /30

Ratio and Percentages

1. There is £80 in a pot which is shared out amongst 3 people. Anne gets £20 Mark gets £35 and Ben gets £25. What ratio of the money do all of the people get?

   - Anne, Mark, Ben get 4:7:5 respectively.

(2 Marks)

2. 200 cakes are shared out in a ratio of 1:2:3 in to groups a, b and c respectively. How much does each group get?

   - a,b,c get 33:67:100

(2 Marks)

3. £60 pocket money is split between three people. Sally gets twice the amount of Rob and Malik gets three times more than Rob.
   a. How much does each person get?

   - Sally = £20, Rob = £10, Malik = £30

   b. How much does each person get if the original amount is reduced by 50%?

   - Sally = £10, Rob = £5, Malik = £15

(4 Marks)

4. What is 10% of 200?
   - 20

(1 Mark)

5. A TV has been reduced in the sale by 20%, is was £240, how much is it now?

- £192

(2 Marks)

6. A Book was put into the sale and is now £12, how much was it originally if the sale was 20% off?

- £15

(3 Marks)

7. A new house is worth £100,000 and its value depreciates by 10% after the first year, but goes up by 10% in the second year.

   a. How much is it worth at the end of the first year?

   - £90,000

   b. How much is the house worth at the end of the second year?

   - £99,000

(4 Mark)

8. A car was priced at £3200 but was reduced to £2000. What was the percentage reduction?

- 37.5%

(2 Marks)

9. Mary bought a car for £5000 + 17.5% VAT. £2000 was paid off straight away and the remaining value was paid in 12 monthly instalments. The charge for paying the remaining value in monthly instalments was an additional 10% of the outstanding value.

   a. How much were the monthly instalments?

   - £355.21

   b. How much did Mary Pay for the car altogether?

   - £6262.50

(6 Marks)

10. There were 24 people working in a kitchen, 4 were boys, 4 were girls, 8 were women and 8 were men.

   a. What proportion of the people in the kitchen were male?

   - Half

   b. What ratio of girls were there, compared to the total number of people in the kitchen?

   - 4:24 = 1:6

   c. The kitchen had a 25% reduction in staffing, how many boys would you expect there to be?

   - 3 remaining.

(6 Marks)