Past Paper Worksheet P2 Ratio and Rate IGCSE Mathematics 0580



1. Divide $105 in the ratio 4 : 3. [2]
   0580/41/O/N/16 Q1(a)

2. Ahmed and Babar share 240g of sweets in the ratio 7: 3.
   Calculate the amount Ahmed receives. [2]
   0580/23/M/J/15 Q1)

3. Martha divides $240 between spending and saving in the ratio spending : saving = 7 : 8.
   Calculate the amount Martha has for spending [2]
   0580/23/O/N/11 Q1)

4. Amol and Priya deliver 645 parcels in the ratio Amol : Priya = 11 : 4.
   Calculate the number of parcels Amol delivers. [1]
   0580/42/F/M/19 Q1)(a)

5. Ahmed, Batuk and Chand share $1000 in the ratio 8:7: 5.
   Calculate the amount each receives. [3]
   0580/22/F/M/15 Q9)

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6. In 2015, the energy company divided its profits in the ratio
   shareholders : bonuses : development =
   5: 2 : 6. In 2015, its profits were $390 million.
   Calculate the amount the company gave to shareholders. [2] **0580/41/M/J/17 Q1(d)**

7. The interior angles of a pentagon are in the ratio
   $4: 5: 5: 7: 9$.
   Find the size of the largest angle [3]
   0580/21/M/J/22 Q12)

8. Jo and Mo share $26.
   Jo receives $5 more than Mo.
   Find the ratio Jo's money : Mo's money.
   Give your answer in its simplest form.
   0580/23/O/N/21 Q16)

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9. Ralf and Susie share $57 in the ratio 2 : 1.
   (a) Calculate the amount Ralf receives. [2]
   (b) Ralf gives $2 to Susie. Calculate the new ratio Ralf's money : Susie's money.
   Give your answer in its simplest form. [2]
   0580/22/O/N/16 Q12)

10. (a) A school has 240 students.
    The ratio girls : boys = 25 : 23.
    (i) Show that the number of boys is 115. [1]
    (ii) One day, there are 15 girls absent and 15 boys absent. Find the ratio girls : boys in school on this day.
    Give your answer in its simplest form. [2]
    0580/43/O/N/18 Q2)(a)

11. Alex has $20 and Bobbie has $25.
    (i) Write down the ratio
    Alex's money : Bobbie's money in its simplest form. [1]
    (ii) Alex and Bobbie each spend 1/5 of their money.
    Find the ratio Alex's remaining money : Bobbie's remaining money in its simplest form. [1]
    (iii) Alex and Bobbie then each spend $4. Find the new ratio Alex's remaining money : Bobbie's remaining money in its simplest form. [2]
    0580/42/O/N/17 Q1)(a)

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12. The Martinez family spends $150 in the ratio
    fuel :meals : gifts = 11 : 16 : 3.
    (i) Show that $15 is spent on gifts. [2]
    (ii) The family buys two gifts.
    The first gift costs $8.25.
    Find the ratio cost of first gift : cost of second gift.
    Give your answer in its simplest form. [2]
    0580/43/O/N/12 1(b)

13. Ali and Mo share a sum of money in the ratio
    Ali : Mo = 9 : 7.
    Ali receives $600 more than Mo. Calculate how much each receive[3] **0580/41/O/N/19 Q2)(a)**

14. Alex and Chris share sweets in the ratio
    Alex : Chris = 7 : 3.
    Alex receives 20 more sweets than Chris.
    Work out the number of sweets Chris receives. [2]
    0580/22/O/N/20 Q12)

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15. The family visit two waterfalls, the Humboldt Falls and the Bridal Veil Falls. The ratio of the heights Humboldt Falls : Bridal Veil Falls = 5 : 1. The Humboldt Falls are 220m higher than the Bridal Veil Falls. Calculate the height of the Humboldt Falls. [2]
0580/42/O/N/18 Q1(a)(iii)

16. The library has DVDs on crime, adventure and science fiction.
The ratio crime : adventure : science fiction = 11 : 6 : 10.
The library has 384 more science fiction DVDs than adventure DVDs.
Calculate the number of crime DVDs the library has. [2]
0580/41/O/N/17 Q1(b)

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Answers

Q1) (a)(i) 60 & 45	Q2) 168	Q3) 112	Q4) 473	Q5) 400, 350, 250
Q6) 150 M	Q7) 162	Q8) 31 : 21	Q9) (a) 38 (b) 12 : 7	Q10) 11 : 10
Q11) (i)4 : 5 (ii)4 : 5 (iii) 3 : 4	Q12) 11:9	Q13) 2700,2100	Q14) 15	Q15) 275
16) 1056				