Year Group: 4

Strand: Numbers

Topic: Ratio and Proportion

Learning Objective: To use ratio and proportion to solve word problems

Strategies:

Question: Kate shares out 12 sweets. She gives Jim 1 sweet for every 3 sweets she takes. How many sweets does Sam get?

Method 1:
Solution: Step 1: Ratio of Jim's share to Kate's **= 1: 3**

Total ratio = 1 +3 = 4

Step 2:   **Jim's share = ¼ × 12   = 3 sweets**

Method 2:

Jim	Kate	Total
1 sweet	3 sweets	4
1 sweet	3 sweets	4
1 sweet	3 sweets	4
Total = 3 sweets	**Total = 9 sweets**	**12**

1. At the gym club there are 2 boys for every 3 girls. There are 30 children at the club. How many boys are there?

2. Dee mixes 1 tin of red paint with 2 tins of white paint. She needs 9 tins of paint altogether. How many tins of red paint does she need?

3. Alice fed 28 fish to a mother seal and baby seal. The mother seal had

5 fish for every 2 fish for the baby seal. How many fish did Alice feed the mother seal?

4. Jan got 60p pocket money and saved 20p. Winston got £3 pocket money and saved £1. Who saved the greater proportion of pocket money?

5. Gita got 40 out of 80 right in her Maths test. She got 45 out of 100 right in her science test. Is Gita better at Maths or Science?