

Marbles Ratio Problem Solving

Problem Solving Exercises

1. In a bag, the ratio of red to blue marbles is $3:2$. If there are 18 red marbles, how many blue marbles are there?
2. A box contains green and yellow marbles in the ratio $5:7$. If there are 60 marbles in total, how many are green and how many are yellow?
3. The ratio of black to white marbles in a jar is $4:3$. If there are 28 black marbles, how many white marbles are there?
4. In a collection, the ratio of red, blue, and green marbles is $2:3:5$. If there are 40 marbles in total, how many of each colour are there?
5. A bag contains marbles in the ratio $7:2:1$ for blue, green, and red respectively. If there are 90 marbles altogether, find the number of each colour.
6. The ratio of red to yellow marbles is $2:5$. If there are 35 yellow marbles, how many red marbles are there?
7. A jar contains 8 more blue marbles than green marbles. If the ratio of blue to green marbles is $3:2$, how many marbles of each colour are there?
8. The ratio of black to white marbles is $5:4$. If there are 36 white marbles, how many black marbles are there?
9. In a bag, the ratio of red, blue, and yellow marbles is $4:3:2$. If there are 27 marbles in total, how many blue marbles are there?
10. The number of green marbles is three times the number of red marbles. If there are 48 green marbles, how many red marbles are there?

Maths with Melissa

Answer Key

1. 12 blue marbles
2. 25 green marbles, 35 yellow marbles
3. 21 white marbles
4. 8 red marbles, 12 blue marbles, 20 green marbles
5. 63 blue marbles, 18 green marbles, 9 red marbles
6. 14 red marbles
7. 24 blue marbles, 16 green marbles
8. 45 black marbles
9. 9 blue marbles
10. 16 red marbles