



Eleven Plus
Revision Books

Longer Maths and Data Worksheet Y

1. In a class there is 12 girls and the ratio of boys to girls is 3:4. How many children are in the class?
2. In the World Cup there is 64 teams. 25% of the teams are African. How many African Nations are in the World Cup?
3. A club has 230 drink orders in one night. 30% are Coca Cola. How drinks many are Cola Cola?
4. Ryan is playing archery. He throws 13 times and hits the same each time and gets 78 overall. What score does he hit?
5. What is the volume of a cube with side 4cm?
6. If a garden is 3m x 6m then how many 1cm x 2cm tiles will fill the garden?
7. If $\frac{2}{7}$ of a sweet jar with 273 sweets in are Starburst, then how many Starbursts are there?
8. How many degrees are there between the hands on a clock when it is 2:00am?



Answers

1. In a class there is 12 girls and the ratio of boys to girls is 3:4. How many children are in the class?

$$\begin{array}{l} \text{Ratio} \qquad \text{Boys: Girls} \\ \qquad \qquad \qquad 3 : 4 \\ \qquad \qquad \qquad 9 : 12 \qquad 9 + 12 = \underline{\mathbf{21 \text{ children}}} \end{array}$$

2. In the World Cup there is 64 teams. 25% of the teams are African. How many African Nations are in the World Cup?

$$\begin{array}{l} 25\% = \frac{1}{4} \\ 64 \text{ divided by } 4 = \underline{\mathbf{16 \text{ teams}}} \end{array}$$

3. A club has 230 drink orders in one night. 30% are Coca Cola. How many are Coca Cola?

$$\begin{array}{l} 10\% \text{ of } 230 = 23 \\ 30\% \text{ of } 230 = 23 \times 3 = \underline{\mathbf{69 \text{ soft drinks}}} \end{array}$$

4. Ryan is playing archery. He throws 13 times and hits the same each time and gets 78 overall. What score does he hit?

$$78 \div 13 = \underline{\mathbf{6}}$$

5. What is the volume of a cube with side 4cm?

$$\begin{array}{l} \text{Volume} = \text{length} \times \text{width} \times \text{depth} \\ 4\text{cm} \times 4\text{cm} \times 4\text{cm} = \underline{\mathbf{64\text{cm}^3}} \end{array}$$

6. If a garden is 3m x 6m then how many 1cm x 2cm tiles will fill the garden?

$$\begin{array}{l} \text{Garden: } 300\text{cm} \times 600\text{cm} = 180,000\text{cm}^2 \\ \text{Tiles: } 1\text{cm} \times 2\text{cm} = 2\text{cm}^2 \\ 180,000\text{cm}^2 \div 2\text{cm}^2 = \underline{\mathbf{90,000 \text{ tiles}}} \end{array}$$

7. If $\frac{2}{7}$ of a sweet jar with 273 sweets in are Starburst, then how many Starbursts are there?

$$\frac{2}{7} \text{ of } 273 = \underline{\mathbf{78}}$$



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8. How many degrees are there between the hands on a clock when it is 2:00am?

The big hand is at twelve and small hand at 2.

360 degrees in a circle

12 numbers on clock so each number is 30 degrees.

There is 2 gaps between 12 and 2 so $2 \times 30 \text{ degrees} = \underline{\underline{60 \text{ degrees}}}$