



West Byfleet Junior School

Problem of the Week Solutions - Week 7



2 Points

Eva has created a table to show how many boys and girls took part in after school clubs last week.

Day	Boys	Girls
Monday	11	9
Tuesday	18	12
Wednesday	13	11
Thursday	8	8
Friday	9	7

Eva says,



106 boys took part in after school clubs last week.

Is Eva correct?
Explain why.

Eva is incorrect.

If you add the boys column (11, 18, 13, 8 and 9) the total is 59 not 106.

106 is the total for both boys and girls.

3 Points

Whitney has a piece of ribbon that is 3 metres long.

She cuts it into 12 equal pieces and gives Teddy 3 pieces.

How many metres of ribbon does Whitney have left?

$$3 \text{ metres} = 300\text{cm}$$

$$300 \div 12 = 25\text{cm (the length of one piece)}$$

$$\text{Teddy has 3 pieces (} 25 \times 3 = 75\text{cm)}$$

Whitney has what is left.

$$300 \text{ (the whole)} - 75 \text{ (what Teddy has)} = \mathbf{225\text{cm or } 2.25\text{m}}$$

5 Points

Jack has £55

He spends $\frac{3}{5}$ of his money on a coat and 30% on shoes.

How much does he have left?

$$3/5 \text{ of } \pounds 55 = 55 \div 5 = 11 \text{ (} 1/5)$$

$$11 \times 3 = 33 \text{ (} 3/5)$$

$$\mathbf{Coat = \pounds 33}$$

$$30\% \text{ of } \pounds 55 = 55 \div 10 = \pounds 5.50 \text{ (} 10\%)$$

$$\pounds 5.50 \times 3 = \pounds 16.50 \text{ (} 30\%)$$

$$\mathbf{Shoes = \pounds 16.50}$$

$$\text{Coat + shoes} = \pounds 33 + \pounds 16.50 = \pounds 49.50 \text{ spent.}$$

$$\mathbf{\pounds 55 - \pounds 49.50 \text{ (spent)} = \pounds 5.50 \text{ left}}$$

Attempt to solve one or more of the problems and submit your solutions to Miss Eastland via email eeastland@west-byfleet-junior.surrey.sch.uk

Submit your solution on or **before Wednesday 20th January** for your points to be added to the leaderboard, if your answer(s) are correct.

The leaderboard, weekly problems and solutions can be found on the school website under: Pupils - Our Curriculum- Mathematical Development- Problem of the Week