

Division problems - answers

1.

Step 1 Read and understand the problem.	If you were travelling at an average speed of 30 mph, how long would it take to travel 120 miles?
Step 2 Work out what calculations you need to do.	This is division but it looks tricky. You could say 30 miles in 1 hour, so 60 miles in 2 hours. So it will be 120 miles in 4 hours.
Step 3 Carry out the calculations and answer the problem.	For writing it down you could put: $120 \div 30 = 4$ Tip: when both whole numbers end in a zero you can knock the zero off both numbers (this only works with whole numbers). This becomes $12 \div 3 = 4$. A journey of 120 miles would take 4 hours.
Step 4 Check your answer works.	Check by multiplying. You would cover about 30 miles in each hour, so in 4 hours you would cover $4 \times 30 = 120$ miles. The answer is correct.

2.

Step 1 Read and understand the problem.	Two friends were doing some heavy gardening jobs. If one person did $\frac{3}{4}$ of the work, how would they share the £60 they were given?
Step 2 Work out what calculations you need to do.	This look tricky. If 1 person did $\frac{3}{4}$ of the work then the other person must have done $\frac{1}{4}$. So 1 person must be due $\frac{1}{4}$ of the money. £60 was paid in total. So to find $\frac{1}{4}$ of 60 you could divide it by 4.
Step 3 Carry out the calculations and answer the problem.	$\text{£}60 \div 4 = \text{£}15$ So $\frac{1}{4}$ is £15 and $\frac{3}{4}$ is £45 (3 lots of £15). One person would receive £15, and the other £45.
Step 4 Check your answer works.	Check by adding. $\text{£}15 + \text{£}45 = \text{£}60$ The answer is correct.