

## Friday Hard - LO: to find a whole from a known percentage.

### Varied fluency

11a. Complete the bar model.

75%				

★ VF

12a. Which two facts help to calculate:

93% of 350 = ?

A.  $350 \div 70 = 5$

B.  $10\% \text{ of } 35 = 3.5$

C.  $3 \times 3.5 = 10.5$

★ VF Complete the calculation.

13a. True or false?

If  $12\% = 2.4$  then  $48\% = 19.2$

★ VF

14a. Find the missing values.

7% of 150 =   

64% of    = 192

19% of 250 =   

14% of    = 21

★ VF

15a. A gardener is mixing compost and manure for his allotment. He uses a whole 7kg bag of compost.

The final product is 65% manure.

How much manure did he use?  
Give your answer in kilograms.

★ VF

### Reasoning and problem solving

7a. The children disagree about how to find 33% of 140.

10% of 140 is 14 and 1% of 140 is 1.4. If I multiply both by 3, I can find the answer.

Tia

I can find 77% of 140 and subtract that from 140 to find the answer.

Joe

★ R Who do you agree with and why?

8a. What could the missing values be?

	<span style="border: 1px solid blue; padding: 2px 5px;">  </span> %	
	of	
33%	of	= <span style="border: 1px solid blue; padding: 2px 5px;">  </span>
	= 88	

★ PS Find 2 possible solutions.

9a. There are 200 children in year seven.

90% are going on the school adventure camp.

While on camp 75% of the children take part in the high wire obstacle course, and 80% of those who take part complete the full course.

How many children went on the high wire and how many completed the course?

★ PS