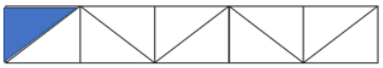
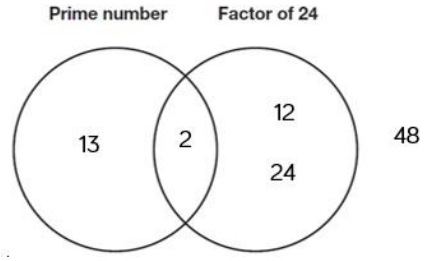
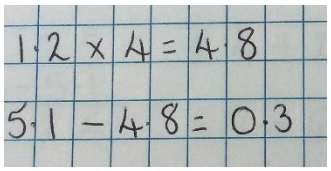
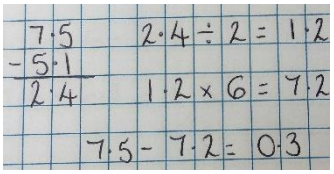
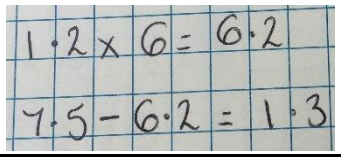
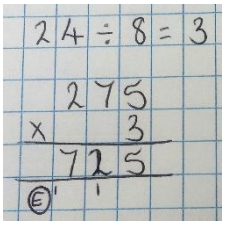
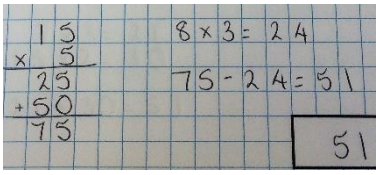
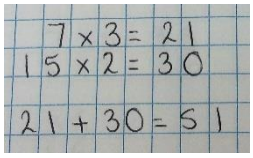
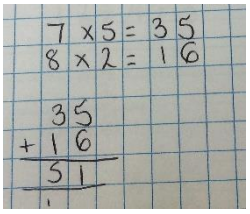
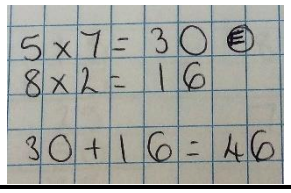
Year 6 – Reasoning and Problem Solving – Spring

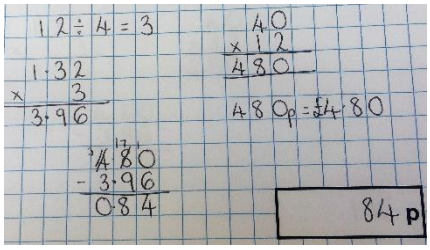
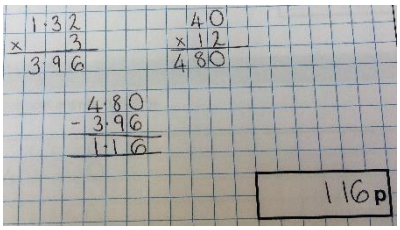
General Marking Principles

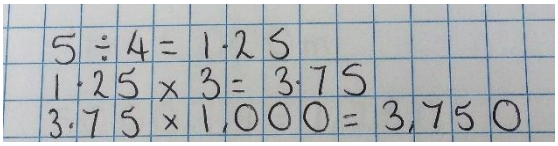
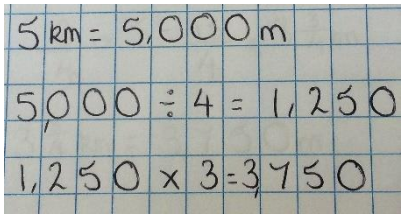
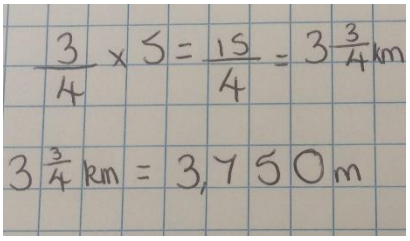
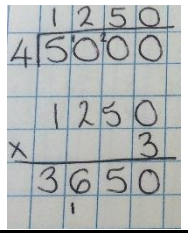
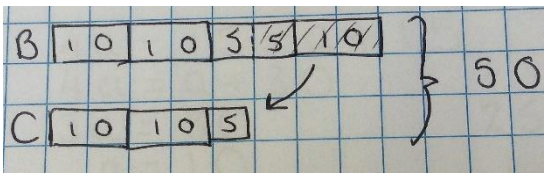
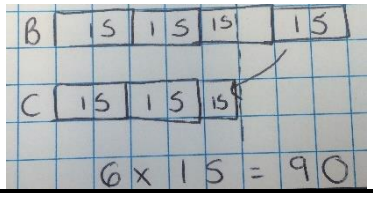
- Allow answers given in words unless otherwise instructed. Ignore spelling errors provided intention is clear.
- For numbers with four or more digits, accept answers with or without a comma or other separator.

Question	Answer	Marks	Notes and guidance
Q1	One triangle shaded e.g. 	1	Any **one** triangle shaded
	0.1	1	Accept any clear indication – circle, underlined etc.
	$\frac{79}{100}, \frac{81}{100}, \frac{83}{100}$	1	
Q2	4,023	1	
	4,063	1	
Q3	15	1	
Q4	-3 in first box 7 in third box	2	Allow 1 mark for 1 correct answer in the correct box.
Q5	12	1	
Q6	8	1	
	Rehan	1	
Q7	5	1	
Q8		2	Award 2 marks for all numbers correctly placed. Award 1 mark for any three numbers correctly placed in the diagram. If 48 has not been placed as it does not fit in the diagram, accept all the numbers as correct.

Q9	$\frac{1}{4}$	1	Accept any equivalent fraction e.g. $\frac{25}{100}$
	Any valid reason why 0.75 is less than $\frac{7}{8}$	1	Possible answers: • $0.75 = \frac{3}{4} = \frac{6}{8}$, so it's less than $\frac{7}{8}$ • $\frac{7}{8} = 0.875$ which is more than 0.75
Q10	1.2 kg	1	
	0.3 kg	2	Award 2 marks for the correct answer. Possible methods:   Award 1 mark for fully correct method with no more than one numerical error. 
Q11	54 km	2	Award 2 marks for the correct answer of 54 km Award 1 mark for attempt to work out 3 × 18 km

Q12	250 g	1	
	825 g	2	Award 2 marks for the correct answer. Award 1 mark for fully correct method with no more than one numerical error. 
Q13	51 cm^2	2	Award 2 marks for the correct answer. Possible methods:    Award 1 mark for fully correct method with no more than one numerical error. 
Q14	62	1	
	3	1	

Q15	84 p	2	Award 2 marks for the correct answer.  Award 1 mark for fully correct method with no more than one numerical error. 
Q16	48 cm^3	1	

Q17	3,750 m	2	Award 2 marks for the correct answer. Possible methods:    Award 1 mark for fully correct method with no more than one numerical error e.g. 
Q18	50	2	Award 2 marks for the correct answer. Possible method:  Award 1 mark for fully correct method with no more than one numerical error. 

Total: 35 marks