1) Count in steps of 9 to draw a pathway through the maze moving vertically, horizontally or diagonally.

Start	45	35	45	54	63	84	42	43	92
9	25	36	15	7	65	72	90	99	100
6	18	27	10	0	72	37	81	70	108
27	61	100	21	33	56	58	90	32	**Finish**

2) Here are ten of the multiples of 9. Can you place them in order and identify which two multiples of 9 are missing?

45	72	27	90	18	99	36	81	9	54

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____

The missing multiples of 9 are [   ] and [   ].

3) Solve these calculations.

9 × 5 = [   ]   9 × 5 × 10 = [   ]   9 × 5 × 100 = [   ]

45 ÷ 9 = [   ]   450 ÷ 90 = [   ]   4500 ÷ 900 = [   ]

4) Dan has accidentally muddled up these calculations. Can you find the missing values then help him to rearrange the related calculations into two groups?
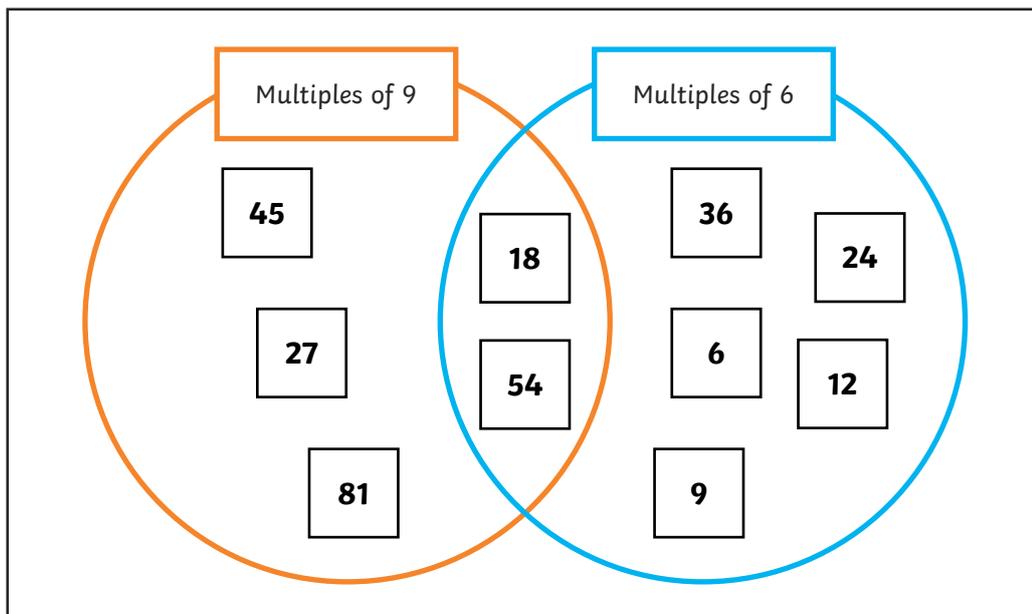
9 × 4 = [ ]   12 × [ ] = 108   36 ÷ 9 = [ ]

108 ÷ 9 = [ ]   [ ] × 9 = 360   1080 ÷ 90 = [ ]

Group One	Group Two

1) Molly has sorted these numbers into the Venn diagram. Do you agree or disagree? Explain your answer.

Multiples of 9 | Multiples of 6

45

18

27

54

81

36

24

6

12

9

_____

_____

_____

2) Which one is the odd one out? Explain your reasoning.

63 ÷ 9 = 7   700 × 9 = 63 000   90 × 70 = 6300   10 × 7 × 9 = 630

_____

_____

3) Zak has been writing different calculations using the numbers and symbols in this box. Unfortunately, his water bottle has leaked on his maths book. Can you work out which numbers or symbols have been washed away? Explain how you know.

9	6	10	100
	×	÷	

540 ☐ 9 = 60	☐ × ☐ = 54	9 × 6 × ☐ = 540

_____

_____

_____

_____

1) **a)** The 9 times table has been written using symbols but it has not been written in the correct order.

Use your problem-solving skills to identify what each calculation is and which number each symbol represents.

❤️	🙂	🌙	⭐	☁️	▭	☀️	🔺	⬅️	▭

🌙 × ❤️ = ⬅️ 🌙

⭐ × ❤️ = ▭ ☁️

🔺 × ❤️ = ☁️ ▭

☀️ × ❤️ = 🌙 ⬅️

❤️ × ❤️ = 🔺 🙂

▭ × ❤️ = 🙂 🔺

🙂 ▭ × ❤️ = 🙂 ▭ 🔺

🙂 ▭ × ❤️ = ❤️ ▭

🙂 🙂 × ❤️ = ❤️ ❤️

⬅️ × ❤️ = ⭐ ☀️

☁️ × ❤️ = ☀️ ⭐

🙂 × ❤️ = ❤️

b) Explain how you solved this problem.

_____

_____

_____

_____

_____

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