



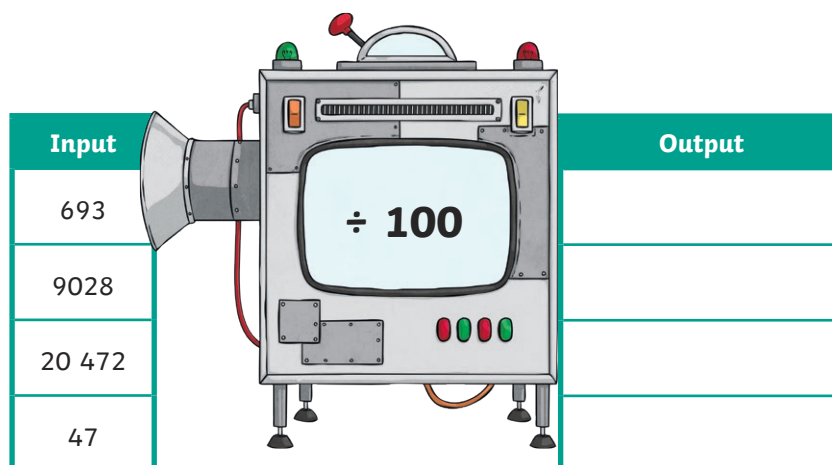
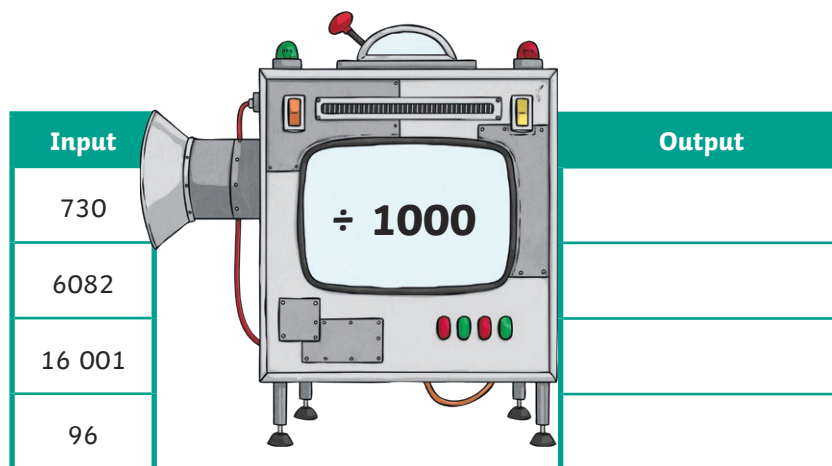
1) Divide the numbers represented on the place value charts by 10, 100 and 1000.

Thousands	Hundreds	Tens	Ones
1000 1000	100 100 100		1 1 1 1

Thousands	Hundreds	Tens	Ones
1000 1000 1000 1000		10 10 10 10 10	1 1 1 1 1 1 1

Thousands	Hundreds	Tens	Ones
	100 100 100 100	10 10	

2) Complete the missing numbers in these function machine diagrams.





1)



I think the missing number in this calculation is 3.

Do you agree? Explain your reasoning.

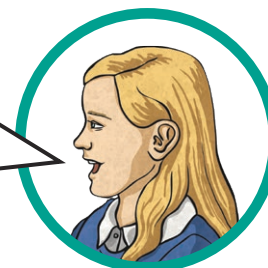
$$6.705 \times 100 + 0.1 \times \boxed{} \div 10 = 201.18$$

2)



I am thinking of a number. I multiply it by 10 and then add 50. I then divide it by 100. I get 0.907 as my answer. What number did I start with?

I think 40.7 was your starting number.



Do you agree? Explain your reasoning.

3) When you divide a three-digit number by 100, the answer will be a decimal.

Prove if this statement is always, sometimes or never true. Explain your reasoning and support this with examples.



1) Hidden within this grid are 21 calculations involving dividing by powers of 10. They are all horizontal or vertical.

Can you find them all?

44.5	1000	0.0445	100	33.5	1000	43	10	4.3	42.5
10	4	10	0.4	100	10	35	100	1000	10
17	4	1000	0.004	0.335	100	100	1000	10	4.25
1000	6	100	0.06	100	13	0.35	100	1000	10
0.017	10	100	1000	10	1000	100	32.5	1000	0.0325
100	44.5	10	100	9.5	0.013	22	100	0.22	1000
1000	1000	28.5	10	1000	100	10	1000	43.5	10
45.5	0.0445	1000	1000	0.0095	10	39.5	10	100	1000
1000	10	0.0285	48	10	4.8	100	100	0.435	10
0.0455	1000	1	1000	0.001	100	0.395	33	1000	0.033

