Homework/Extension
Step 9: Dividing by 10, 100 and 1,000

National Curriculum Objectives:

Mathematics Year 5: (5C6b) Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Match questions and answers using knowledge of dividing up to 5-digit numbers by 10, 100 and 1,000. Includes place value charts and counters.
Expected Match questions and answers using knowledge of dividing up to and including 5- digit numbers by 10, 100 and 1,000, with some place value charts and numerals.
Greater Depth Match questions and answers using knowledge of dividing up to 5-digit numbers by 10, 100 and 1,000 where some numbers are presented using unconventional partitioning and answers use up to 2 decimal places.

Questions 2, 5 and 8 (Varied Fluency)
Developing Identify which calculation is the odd one out using knowledge of dividing up to 5-digit numbers by 10, 100 and 1,000. Includes place value charts and counters.
Expected Identify which calculation is the odd one out using knowledge of dividing up to and including 5-digit numbers by 10, 100 and 1,000, with some place value charts and numerals.
Greater Depth Identify which calculation is the odd one out using knowledge of dividing up to 5-digit numbers by 10, 100 and 1,000 where some numbers are presented using unconventional partitioning and answers use up to 2 decimal places.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Use clues to identify missing digits in a number using knowledge of dividing up to 5-digit numbers by 10, 100 and 1,000. Includes place value charts and counters.
Expected Use clues to identify missing digits in a number using knowledge of dividing up to and including 5-digit numbers by 10, 100 and 1,000, with some place value charts and numerals.
Greater Depth Use clues to identify missing digits in a number using knowledge of dividing up to 5-digit numbers by 10, 100 and 1,000 where some numbers are presented using unconventional partitioning and answers use up to 2 decimal places.

More Year 5 Multiplication and Division resources.

Did you like this resource? Don't forget to review it on our website.

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Dividing by 10, 100 and 1,000

1. Match the starting numbers to the correct operation and answers. One has been done for you.

T Th	Th	H	T	O
	●●	●●●● ●		

T Th	Th	H	T	O
●●●● ●●●	●			

T Th	Th	H	T	O
●●●	●●●●	●●●● ●		

T Th	Th	H	T	O
●●●● ●●	●●●	●●●● ●●		

÷ 10

÷ 1,000

÷ 100

÷ 100

T Th	Th	H	T	O
			●●	●●●● ●

T Th	Th	H	T	O
	●●●● ●●	●●●	●●●● ●●	

T Th	Th	H	T	O
		●●●	●●●●	●●●● ●●

T Th	Th	H	T	O
			●●●● ●●●	●

D

VF
HW/Ext

2. Which calculation is the odd one out?

A.

T Th	Th	H	T	O
●●● ●●● ●	●●● ●●	●●● ●		

÷ 100

B.

T Th	Th	H	T	O
		●●● ●●● ●	●●● ●●	

÷ 10

C.

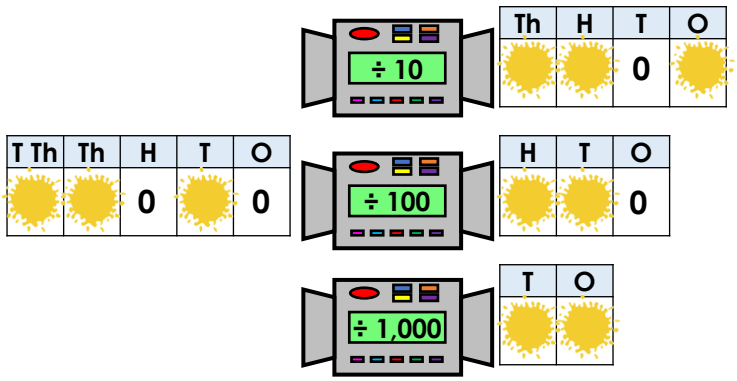
T Th	Th	H	T	O
●●● ●●● ●	●●● ●●			

÷ 1,000

D

VF
HW/Ext

3. Mary has put a number into the three function machines below. She spilt some of her juice and some of the digits have been covered.



My number has five digits.

My number can be divided by 10, 100 and 1,000 evenly.

My number has a digit sum of 5.

What number could Mary have started with? Find three possibilities.

D

RPS
HW/Ext

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Dividing by 10, 100 and 1,000

4. Match the starting numbers to the correct operation and answers. One has been done for you.

T Th	Th	H	T	O
	●●	●●●● ●●●		

27,000

20,700

T Th	Th	H	T	O
●●			●●●● ●●●	

÷ 10

÷ 1,000

÷ 10

÷ 100

27

T Th	Th	H	T	O
		●●		●●●● ●●●

270

2,007

VF
HW/Ext

5. Which calculation is the odd one out?

A.

T Th	Th	H	T	O
●●● ●●	●●● ●●● ●●	●●● ●●● ●		

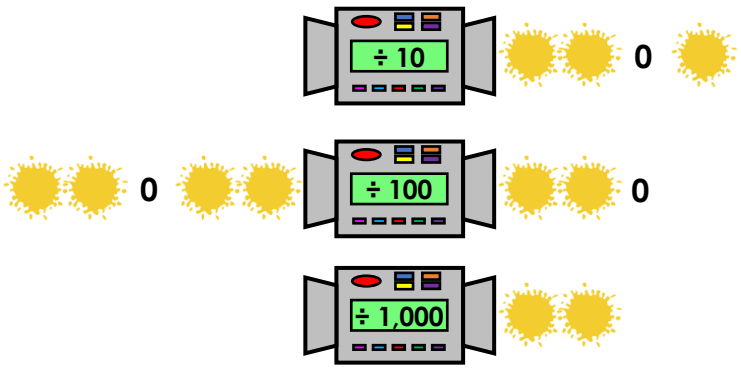
÷ 100

B. 5,870 ÷ 10

C. 56,700 ÷ 100

VF
HW/Ext

6. Annie has put a number into the three function machines below. She spilt some of her juice and some of the digits have been covered.



My number has five digits.

My number can be divided by 10, 100 and 1,000 evenly.

My number has a digit sum of 9.

What number could Annie have started with? Find three possibilities.

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Dividing by 10, 100 and 1,000

7. Match the starting numbers to the correct operation and answers. One has been done for you.

3 thousand, 14 hundreds and 5 ones	÷ 10	425
42 thousands and 50 tens	÷ 1,000	44.05
4,255	÷ 100	1 ten and 34 ones
44,000	÷ 100	42 tens, 5 ones and 5 tenths

GD

VF
HW/Ext

8. Which calculation is the odd one out?

A. 6,150cm ÷ 100

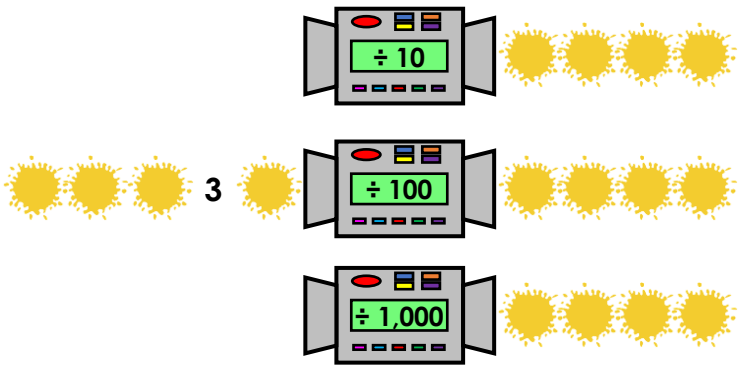
B. 61,500cm ÷ 1,000

C. 615cm ÷ 100

GD

VF
HW/Ext

9. Dylan has put a number into the three function machines below. He spilt some of his juice and most of the digits have been covered.



My number can be divided to create answers up to 2 decimal places.

My number has a digit sum of eight.

Zero is the only digit that is used more than once in my number.

What number could Dylan have started with? Find three possibilities.

GD

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Homework/Extension
Dividing by 10, 100 and 1,000

Developing

1. 71,000 ÷ 1,000 = 71; 34,500 ÷ 100 = 345; 63,600 ÷ 10 = 6,360
2. A
3. Various answers, for example: 50,000; 32,000; 14,000

Expected

4. 27,000 ÷ 1,000 = 27; 20,700 ÷ 100 = 207; 20,070 ÷ 10 = 2,007
5. C
6. Various answers, for example: 63,000; 36,000; 72,000

Greater Depth

7. 42 thousands and 50 tens ÷ 100 = 425; 4,255 ÷ 10 = 42 tens, 5 ones and 5 tenths; 44,000 ÷ 1,000 = 1 ten and 34 ones
8. C
9. Various answers, for example: 41,030; 14,030; 50,030

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