Homework/Extension
Step 5: Divide Decimals by Integers

National Curriculum Objectives:

Mathematics Year 6: (6F9a) Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places
Mathematics Year 6: (6F9c) Use written division methods in cases where the answer has up to two decimal places

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Complete the calculation given by dividing a number with 1 decimal place by 5 with some exchanging, and some pictorial support.
Expected Complete the calculation given by dividing a number with 2 decimal places by 8 with some exchanging, and some pictorial support.
Greater Depth Complete the calculation given by dividing a number with 3 decimal places by 7 with exchanging.

Questions 2, 5 and 8 (Varied Fluency)
Developing Identify which calculations have been correctly solved, by dividing numbers with 1 decimal place by any number up to and including 5 with some exchanging.
Expected Identify which calculations have been correctly solved, by dividing numbers with 2 decimal places by any number up to and including 9 with some exchanging.
Greater Depth Identify which calculations have been correctly solved, by dividing numbers with 3 decimal places by any number up to and including 9 with exchanging. Includes use of zero in decimal places.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Identify the odd one out from a set of calculations and explain why, by dividing numbers with 1 decimal place by any number up to and including 5 with some exchanging, and some pictorial support.
Expected Identify the odd one out from a set of calculations and explain why, by dividing numbers with 2 decimal places by any number up to and including 9 with some exchanging, and some pictorial support.
Greater Depth Identify the odd one out from a set of calculations and explain why, by dividing numbers with 3 decimal places by any number up to and including 9 with exchanging and with some decimals presented unconventionally.

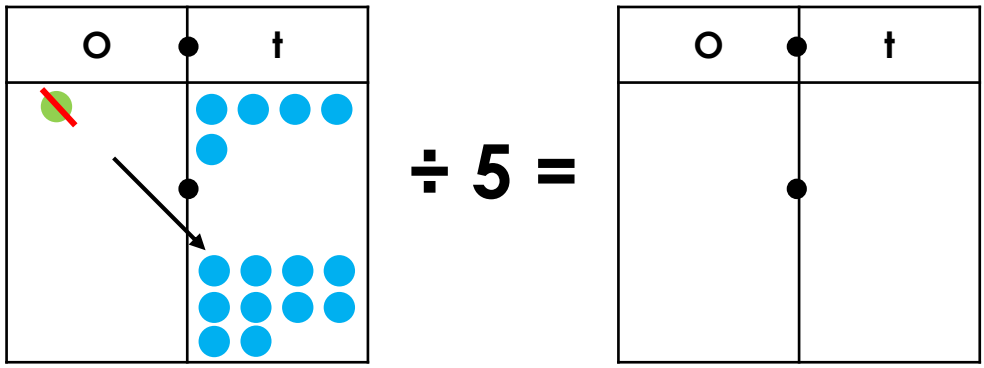
More Year 6 Decimals resources.

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

Divide Decimals by Integers

1. Complete the calculation below and represent it on the blank place value chart.

$1.5 \div 5 =$ _____



D

VF
HW/Ext

2. True or false? These calculations show the correct answers.

A.

$$\begin{array}{r|l} & 2.3 \\ \hline 3 & 7.^{1}2 \end{array}$$

B.

$$\begin{array}{r|l} & 2.2 \\ \hline 4 & 8.4 \end{array}$$

C.

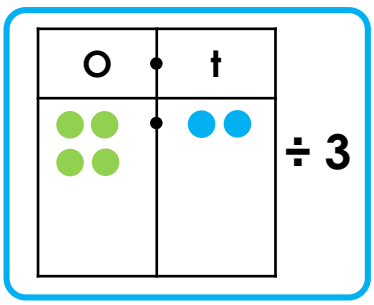
$$\begin{array}{r|l} & 1.6 \\ \hline 3 & 4.^{1}8 \end{array}$$

D

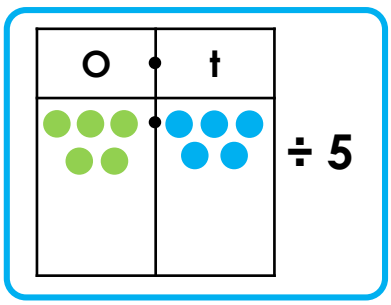
VF
HW/Ext

3. Spot the calculation that is the odd one out.

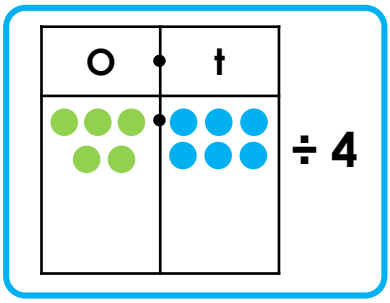
A.



B.



C.



Explain how you know.

D

RPS
HW/Ext

Divide Decimals by Integers

4. Complete the calculation below and represent it on the blank place value chart.

8.16 ÷ 8 = _____

O	t	h

÷ 8 =

O	t	h

E

VF
HW/Ext

5. True or false? These calculations show the correct answers.

A.

	0	.	8	1
8	~~6~~	.	$^{6}4$	8

B.

	1	.	7	1
5	9	.	$^{3}5$	5

C.

	2	.	2	4
4	8	.	8	4

E

VF
HW/Ext

6. Spot the calculation that is the odd one out.

A. **4.84 ÷ 4**

B. **3.63 ÷ 3**

C.

O	t	h
●●● ●●● ●	●●	●●● ●●●

÷ 6

D.

O	t	h
●●	●●● ●●	●●● ●●

÷ 5

Explain how you know.

E

RPS
HW/Ext

Divide Decimals by Integers

7. Complete the calculation below and represent it on the blank place value chart.

7.896 ÷ 7 = _____

7.896 ÷ 7 =

O	t	h	th

GD

VF
HW/Ext

8. True or false? These calculations show the correct answers.

A.

		1	•	2	4	8
	8	9	•	8	4	8

B.

			1	•	5	7	6
	9	1	4	•	1	8	4

C.

		1	•	1	1	3
	7	7	•	0	9	1

GD

VF
HW/Ext

9. Spot the calculation that is the odd one out.

A. 7.218 ÷ 6

B. 7.818 ÷ 6

C. 10.827 ÷ 9

D. Eight ones, forty-two hundredths and one thousandth ÷ 7

E. Nine ones, sixty-two hundredths and four thousandths ÷ 8

Explain how you know.

GD

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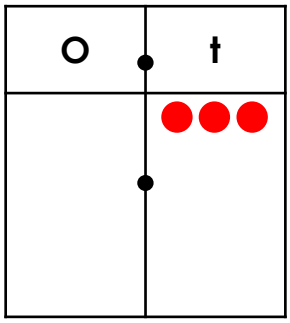
Developing

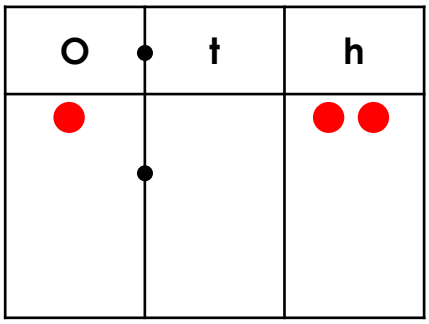
1. 0.3



2. A: false – 2.4; B: false – 2.1; C: true
3. B (5.5 ÷ 5) is the odd one out because it is equal to 1.1, and the rest of the calculations are equal to 1.4

Expected

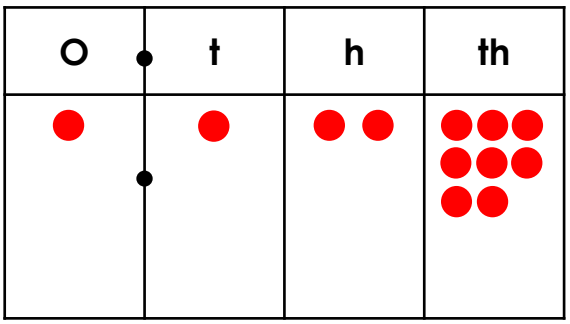
4. 1.02



5. A: true; B: false – 1.91; C: false – 2.21
6. D (2.55 ÷ 5) is the odd one out because it is equal to 0.51, and the rest of the calculations are equal to 1.21

Greater Depth

7. 1.128



8. A: false – 1.231; B: true; C: false – 1.013
9. B (7.818 ÷ 6) is the odd one out because it is equal to 1.303, and the rest of the calculations are equal to 1.203