Homework/Extension Step 6: Divide 2 Digits by 10

National Curriculum Objectives:

Mathematics Year 4: (4F9) <u>Find the effect of dividing a one- or two-digit number by 10 and 100</u>, identifying the value of the digits in the answer as ones, tenths and hundredths

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the calculation to the correct answer. Includes place value grids and pictorial support.

Expected Match the calculation to the correct answer. Includes some use of pictorial support.

Greater Depth Match the calculation to the correct answer. Includes no pictorial support.

Questions 2, 5 and 8 (Varied Fluency)

Developing Complete a calculation by showing the answer on a place value grid using counters. Includes pictorial support.

Expected Complete a calculation by showing the answer on a place value grid using digits or counters.

Greater Depth Complete a calculation by showing the answer on a place value grid using coins. No pictorial support and questions presented in context.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain and correct a mistake in calculating an answer. Includes place value grids and pictorial support.

Expected Explain and correct a mistake in calculating an answer. Includes some use of pictorial support.

Greater Depth Explain and correct a mistake in calculating an answer. Includes no pictorial support.

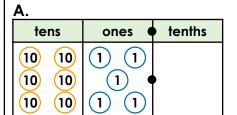
More Year 4 Decimals resources.

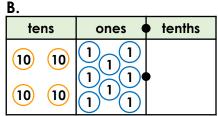
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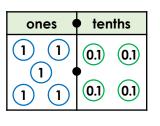
Divide 2 Digits by 10

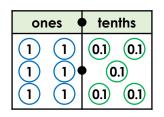


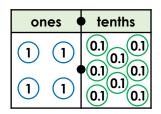




<u>C.</u>		
tens	ones	tenths
10 10	1 1	
10 10	1 1	







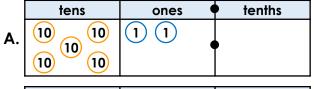
HW/Ext

tenths

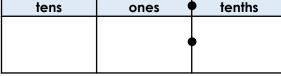


В.

2. Complete the calculations. Use the place value grids to show your answers.







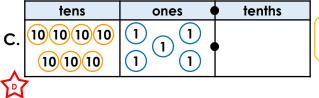




tens



ones



tens	ones	tenths
	•	
		\ \

3. George is completing the division calculation using a place value grid.



ones	tenths
	0.1) (0.1) (0.1)
	0.1 0.1 0.1
	ones

Explain George's mistake. What is the correct answer?



RPS HW/Ext

Divide 2 Digits by 10

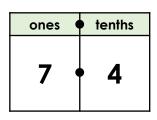
4. Match each calculation to the correct answer.

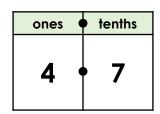
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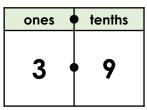
В.

В.

C.

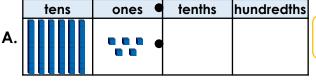




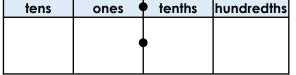


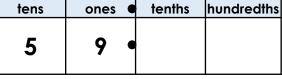
VF HW/Ext

5. Complete the calculations. Use the place value grids to show your answers.

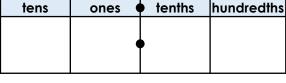


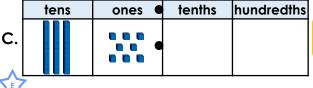












tens	ones	tenths	hundredths

HW/Ext

6. Christina is completing the division calculation using a Gattegno chart.



I have shown my working out but I have made a mistake.

	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7		9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9

Explain Christina's mistake. What is the correct answer?



RPS HW/Ext

Divide 2 Digits by 10

7. Match each calculation to the correct answer.

A.

В.

C.

D.

1.9

1.4

9.1

4.1



VF HW/Ext

8. Solve the word problems. Draw coins on the place value grids to show your answers.

A. Two trays of ten cupcakes cost £24 in total. How much does one cupcake cost?

tens	ones	tenths	hundredths

Four tubs of sweet packets cost £44 in total.

There are ten packets in each tub. How much did each packet cost?

tens	ones	tenths	hundredths
	•		

I bought three boxes of ten gel pens for £36. My friend Max bought ten boxes of six pens for £60. Who spent the least money on one pen?

tens	ones	tenths	hundredths
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	•	ĺ	

SO TO

В.

HW/Ext

9. Preston is completing a division calculation.



I can't work out what I have done wrong. Seventy-four ÷ two = thirty-seven Thirty ÷ ten = 0.3 Seven ÷ ten = 0.7

Explain Preston's mistake. What is the correct answer?



RPS HW/Ext

Homework/Extension Divide 2 Digits by 10

Developing

- 1. A. 6.5; B. 4.8; C. 5.4
- 2. A. 5.2; B. 8.3; C. 7.5
- 3. George has correctly divided the ones digit and moved them to the tenths column but he has subtracted a ten rather than divided the tens column by 10. The answer should be 9.6.

Expected

- 4. A. 4.7; B. 3.9; C. 7.4
- 5. A. 6.5; B. 5.9; C. 3.8
- 6. Christina has moved the tens digit correctly to 8 but has moved the ones digit up to 10 instead of down to 0.1. The correct answer is 8.1.

Greater Depth

- 7. A. 4.1; B. 9.1; C. 1.4; D. 1.9
- 8. A . £24 ÷ 2 ÷ 10 = £1.20; B. £44 ÷ 4 ÷ 10 = £1.10; C. £36 ÷ 3 ÷ 10 = £1.20, £60 ÷ 6 ÷ 10 = £1. Max spent the least money per pen.
- 9. Preston has divided 30 by ten incorrectly. 30 divided by 10 is 3, not 0.3. The correct answer to the calculation is 3.7

