

Homework/Extension

Step 6: Divide 2 Digits by 10

National Curriculum Objectives:

Mathematics Year 4: (4F9) [Find the effect of dividing a one- or two-digit number by 10 and 100, 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

1. Divide the starting numbers by 10 and match them to the correct answer.

A.

tens	ones	tenths
<div style="display: flex; justify-content: space-around;"> 10 10 </div> <div style="display: flex; justify-content: space-around;"> 10 10 </div> <div style="display: flex; justify-content: space-around;"> 10 10 </div>	<div style="display: flex; justify-content: space-around;"> 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 </div> <div style="display: flex; justify-content: space-around;"> 1 1 </div>	

B.

tens	ones	tenths
<div style="display: flex; justify-content: space-around;"> 10 10 </div> <div style="display: flex; justify-content: space-around;"> 10 10 </div>	<div style="display: flex; justify-content: space-around;"> 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 1 1 </div>	

C.

tens	ones	tenths
<div style="display: flex; justify-content: space-around;"> 10 10 </div> <div style="display: flex; justify-content: space-around;"> 10 </div> <div style="display: flex; justify-content: space-around;"> 10 10 </div>	<div style="display: flex; justify-content: space-around;"> 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 1 </div>	

ones	tenths
<div style="display: flex; justify-content: space-around;"> 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 </div> <div style="display: flex; justify-content: space-around;"> 1 1 </div>	<div style="display: flex; justify-content: space-around;"> 0.1 0.1 </div> <div style="display: flex; justify-content: space-around;"> 0.1 0.1 </div>

ones	tenths
<div style="display: flex; justify-content: space-around;"> 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 1 </div>	<div style="display: flex; justify-content: space-around;"> 0.1 0.1 </div> <div style="display: flex; justify-content: space-around;"> 0.1 </div> <div style="display: flex; justify-content: space-around;"> 0.1 0.1 </div>

ones	tenths
<div style="display: flex; justify-content: space-around;"> 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 1 </div>	<div style="display: flex; justify-content: space-around;"> 0.1 0.1 </div> <div style="display: flex; justify-content: space-around;"> 0.1 0.1 0.1 </div> <div style="display: flex; justify-content: space-around;"> 0.1 0.1 0.1 </div>



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

A.

tens	ones	tenths
<div style="display: flex; justify-content: space-around;"> 10 10 </div> <div style="display: flex; justify-content: space-around;"> 10 10 </div>	<div style="display: flex; justify-content: space-around;"> 1 1 </div>	

$\div 10 =$

tens	ones	tenths

B.

tens	ones	tenths
<div style="display: flex; justify-content: space-around;"> 10 10 10 10 </div> <div style="display: flex; justify-content: space-around;"> 10 10 10 10 </div>	<div style="display: flex; justify-content: space-around;"> 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 </div>	

$\div 10 =$

tens	ones	tenths

C.

tens	ones	tenths
<div style="display: flex; justify-content: space-around;"> 10 10 10 10 </div> <div style="display: flex; justify-content: space-around;"> 10 10 10 </div>	<div style="display: flex; justify-content: space-around;"> 1 1 1 </div> <div style="display: flex; justify-content: space-around;"> 1 1 1 </div>	

$\div 10 =$

tens	ones	tenths



VF
HW/Ext

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

10	10	10	10	10	1	1	1
10	10	10	10	1	1	1	

 $\div 10 =$



I know I have made a mistake but I cannot find it.

tens	ones	tenths
<div style="display: flex; justify-content: space-around;"> 10 10 10 </div> <div style="display: flex; justify-content: space-around;"> 10 10 </div> <div style="display: flex; justify-content: space-around;"> 10 10 10 </div>		<div style="display: flex; justify-content: space-around;"> 0.1 0.1 0.1 </div> <div style="display: flex; justify-content: space-around;"> 0.1 0.1 0.1 </div>

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



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Divide 2 Digits by 10

4. Match each calculation to the correct answer.

A.

$$47 \div 10 =$$

B.

$$39 \div 10 =$$

C.

$$74 \div 10 =$$

ones	tenths
7	4

ones	tenths
4	7

ones	tenths
3	9



VF
HW/Ext

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

A.

tens	ones	tenths	hundredths
	••••		

$$\div 10 =$$

tens	ones	tenths	hundredths
		•	

B.

tens	ones	tenths	hundredths
5	9		

$$\div 10 =$$

tens	ones	tenths	hundredths
		•	

C.

tens	ones	tenths	hundredths
	••••		

$$\div 10 =$$

tens	ones	tenths	hundredths
		•	



VF
HW/Ext

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

$$81 \div 10 =$$



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.

$$41 \div 10 =$$

B.

$$91 \div 10 =$$

C.

$$14 \div 10 =$$

D.

$$19 \div 10 =$$

$$1.9$$

$$1.4$$

$$9.1$$

$$4.1$$



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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
		●	
		●	

B. 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
		●	
		●	

C. 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
		●	
		●	



VF
HW/Ext

9. Preston is completing a division calculation.

$$74 \div 2 \div 10 =$$



I can't work out what I have done wrong.

Seventy-four \div two = thirty-seven
 Thirty \div ten = 0.3
 Seven \div ten = 0.7

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



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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. $\pounds 24 \div 2 \div 10 = \pounds 1.20$; B. $\pounds 44 \div 4 \div 10 = \pounds 1.10$; C. $\pounds 36 \div 3 \div 10 = \pounds 1.20$, $\pounds 60 \div 6 \div 10 = \pounds 1$. 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