Reasoning and Problem Solving Step 8: Divide 2 Digits by 1 Digit 1

National Curriculum Objectives:

Mathematics Year 4: (4C6a) Recall multiplication and division facts for multiplication tables up to 12×12

Mathematics Year 4: (4C6b) <u>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</u>

Mathematics Year 4: (4C8) <u>Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m <u>objects</u></u>

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Identify the correct answer using division with no exchange. Pictorial support given.

Expected Identify the correct answer using division with some exchanges. Pictorial support given.

Greater Depth Identify the correct missing digit using division with exchanges.

Questions 2, 5 and 8 (Problem Solving)

Developing Identify the odd one out from given calculations by dividing 2-digit numbers by 1-digit numbers with no exchanges. Pictorial support given.

Expected Identify the odd one out from given calculations by dividing 2-digit numbers by 1-digit numbers with exchanges.

Greater Depth Create three calculations to make two given statements true. Exchanges needed.

Questions 3, 6 and 9 (Problem Solving)

Developing Match solved division calculations to statements using division with no exchange.

Expected Match solved division calculations to statements using division with some exchanges.

Greater Depth Complete calculations so that they match given statements using division with exchanges.

More Year 4 Multiplication and Division resources.

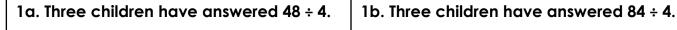
Did you like this resource? Don't forget to review it on our website.

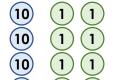


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Holly

Elise

Jack

Olive

22

Frank

21

Kari

23

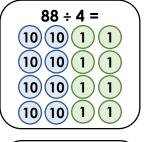
11 Who is correct? Explain how you know.

12

13

Who is correct? Explain how you know.

2a. Which calculation is the odd one out?



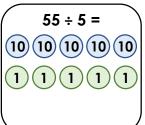
 $44 \div 2 =$

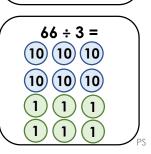
1

10)

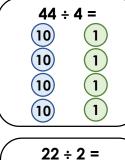
10) 1

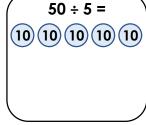
10

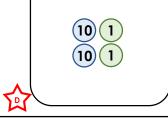


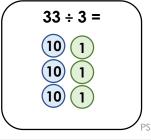










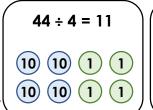


3a. Match the following statements with the correct card



My calculation is solved correctly.

My calculation is solved incorrectly.



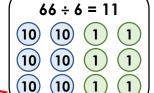
3b. Match the following statements with the correct card



My calculation is solved correctly.

My calculation is solved incorrectly.

Harriet

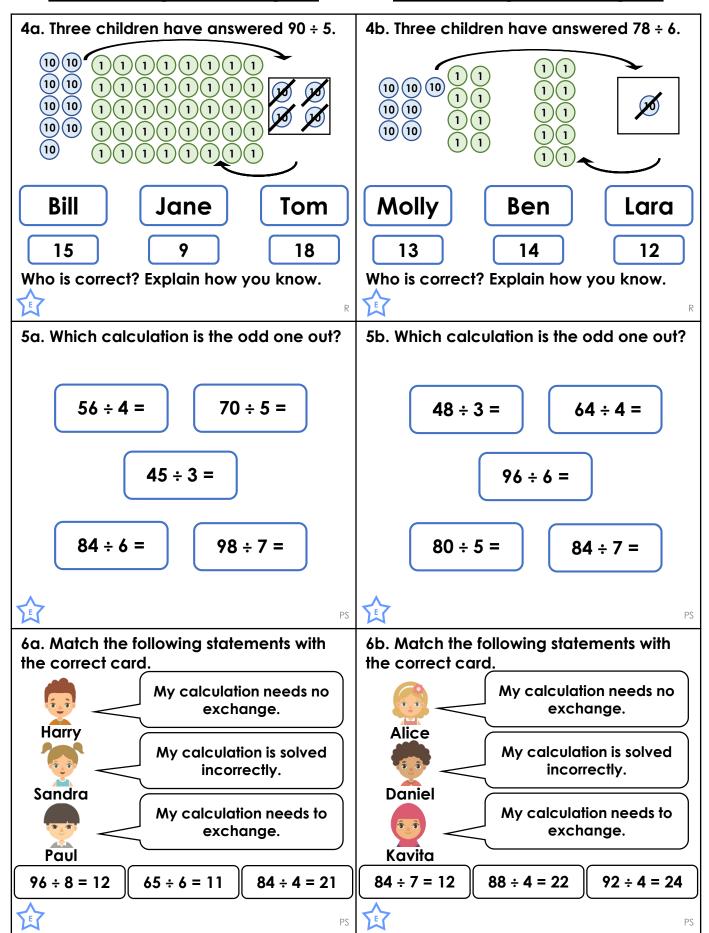


10 10 1 1 10 10 1 1	66 ÷ 3 = 21
	10 10 1 1
10 10 1	10 10 1 1
	10 10 1 1



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7a. Three children have completed a calculation where both missing digits are the same. They have recorded the digit that they think is missing.

7b. Three children have completed a calculation where both missing digits are the same. They have recorded the digit that they think is missing.

Amy

John

Karl

6

5

Who is correct? Explain how you know.

May

Tim

1

Liam

0

Who is correct? Explain how you know.



8a. Create three calculations where a 2digit number is divided by a 1-digit number to make the following statements true.

- 8b. Create three calculations where a 2digit number is divided by a 1-digit number to make the following statements true.
- The answer to calculation B is double the answer to calculation A.
- The answer to calculation B is three times the answer to calculation A.
- The answer to calculation C is less than calculation B but greater than calculation A.
- The answer to calculation C is less than calculation B but greater than calculation A.

A.

В.

Α.

B.

9a. Complete the calculations and match the following statements.

Nick

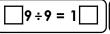
My answer is an even number.



My answer is less than **12**.



My calculation creates a number with the digit sum of 4.



91÷7 =

4÷6 = 1

9b. Complete the calculations and match the following statements. My answer creates a

Victor

number with the digit sum of 3.

My answer is greater than 12.

Joshua

My answer has the same tens and ones digit.

Graham



72÷6 =





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Reasoning and Problem Solving Divide 2 Digits by 1 Digit 1

Developing

1a. Elise is correct because $48 \div 4 = 12$. 2a. $55 \div 5 = 11$ because the other calculations have an answer of 22. 3a. Ellie; $44 \div 4 = 11$, Georgia; $33 \div 3 = 9$

Expected

4a. Tom is correct because $90 \div 5 = 18$. 5a. $45 \div 3 = 15$ because the other calculations have an answer of 14. 6a. Harry; $84 \div 4 = 21$, Sandra; $65 \div 6 = 11$, Paul; $96 \div 8 = 12$

Greater Depth

7a. John is correct because 45 ÷ 9 = 5. 8a. Various answers, for example; A. 72 ÷ 6 = 12; B. 72 ÷ 3 = 24; C. 65 ÷ 5 = 13 9a. Nick; 84 ÷ 6 = 14, Leila; 99 ÷ 9 = 11, Patsy; 91 ÷ 7 = 13

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Developing

1b. Frank is correct because $84 \div 4 = 21$. 2b. $50 \div 5 = 10$ because the other calculations have an answer of 11. 3b. Cameron; $66 \div 6 = 11$, Harriet; $66 \div 3 = 21$.

Expected

4b. Molly is correct because $78 \div 6 = 13$. 5b. $84 \div 7 = 12$ because the other calculations have an answer of 16. 6b. Alice; $88 \div 4 = 22$, Daniel; $92 \div 4 = 24$, Kavita; $84 \div 7 = 12$

Greater Depth

7b. Liam is correct because 72 ÷ 6 = 12. 8b. Various answers, for example; A. 84 ÷ 7 = 12; B. 72 ÷ 2 = 36; C. 69 ÷ 3 = 23 9b. Victor; 72 ÷ 6 = 12, Joshua; 91 ÷ 7 = 13, Graham; 77 ÷ 7 = 11

