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 \times 12

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

Mathematics Year 4: (4C8) <u>Solve problems involving multiplying and adding, including</u> 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 objects

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.

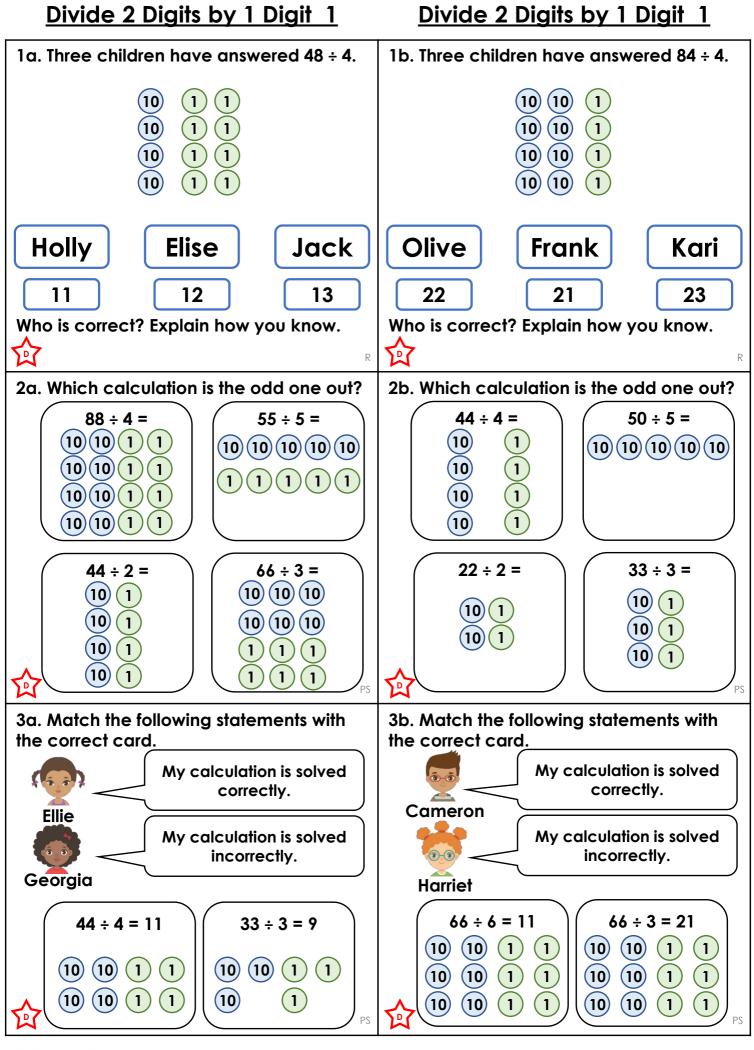
More Year 4 Multiplication and Division resources.

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



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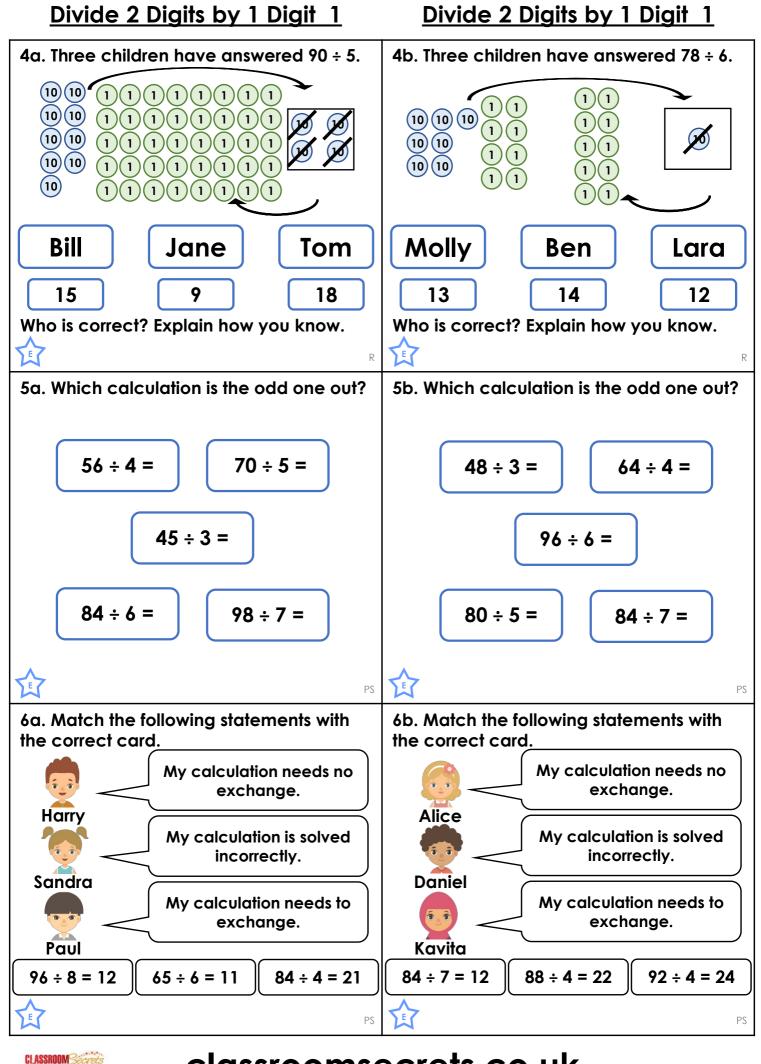
Reasoning and Problem Solving – Divide 2 Digits by 1 Digit 1 – Teaching Information



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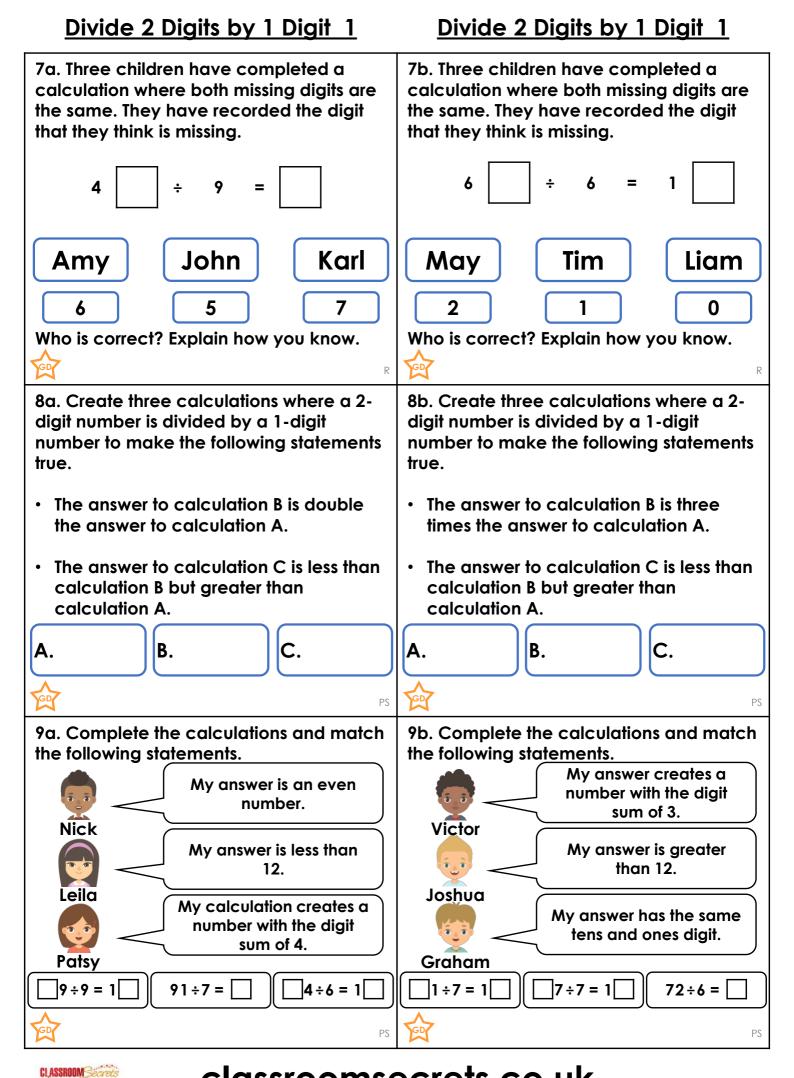
Reasoning and Problem Solving – Divide 2 Digits by 1 Digit 1 – Year 4 Developing



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Reasoning and Problem Solving – Divide 2 Digits by 1 Digit 1 – Year 4 Expected



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Reasoning and Problem Solving – Divide 2 Digits by 1 Digit 1 – Year 4 Greater Depth

<u>Reasoning and Problem Solving</u> <u>Divide 2 Digits by 1 Digit 1</u>

Developing

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

Expected

4a. Tom is correct because $90 \div 5 = 18$. 5a. 45 ÷ 3 = 15 because the other calculations have an answer of 14. 6a. Harry; 84 ÷ 4 = 21, Sandra; 65 ÷ 6 = 11, Paul; 96 ÷ 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 ÷ 4 = 21.
2b. 50 ÷ 5 = 10 because the other calculations have an answer of 11.
3b. Cameron; 66 ÷ 6 = 11, Harriet; 66 ÷ 3 = 21.

Expected

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



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