<u>Varied Fluency</u> <u>Step 11: Division using Factors</u>

National Curriculum Objectives:

Mathematics Year 6: (6C5) <u>Identify common factors, common multiples and prime</u> <u>numbers</u> Mathematics Year 6: (6C8) <u>Solve problems involving addition, subtraction,</u> <u>multiplication and division</u>

Differentiation:

Developing Questions to support the use of factors (using knowledge of the 2, 5 and 10 times table) to divide 3-digit numbers by 2-digit numbers.

Expected Questions to support the use of factors (using knowledge of table facts to 12 x 12) to divide 4-digit numbers by 2-digit numbers.

Greater Depth Questions to support the use of factors (using knowledge of table facts to 12 x 12 and beyond) to divide 5-digit numbers by 2-digit numbers.

More Year 5 and Year 6 Multiplication and Division resources.

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



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Varied Fluency – Division using Factors – Teaching Information



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Varied Fluency - Division using Factors - Year 6 Developing



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Varied Fluency – Division using Factors – Year 6 Expected



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Varied Fluency – Division using Factors – Year 6 Greater Depth

Developing

1a. Various answers; for example: divide by 10 then divide by 3; divide by 3 then divide by 10; divide by 5 then divide by 6; divide by 6 then divide by 5. 1b. Various answers; for example: divide by 10 then divide by 2; divide by 2 then divide by 10; divide by 5 then divide by 4; divide by 4 then divide by 5. 2a. 56 seals 2b. 25 boxes 3a. $650 \div 5 = 130$ then $130 \div 5 = 26$ 3b. $840 \div 12 = 70$ then $70 \div 2 = 35$ 4a. 2

4b. <mark>5</mark>

Expected

5a. Various answers; for example: divide by 10 then divide by 2; divide by 2 then divide by 10; divide by 5 then divide by 4; divide by 4 then divide by 5 5b. Various answers; for example: divide by 10 then divide by 4; divide by 4 then divide by 10; divide by 8 then divide by 5; divide by 5 then divide by 8; 6a. 320 packets 6b. 250 boxes 7a. $6,250 \div 5 = 1,250$ then $1250 \div 5 = 250$ 7b. $8,400 \div 12 = 700$ then $700 \div 4 = 175$ 8a. 3 8b. 8

<u>Greater Depth</u>

9a Various answers; for example: divide by 10 then divide by 8; divide by 8 then divide by 10; divide by 16 then divide by 5; divide by 5 then divide by 16; divide by 20 then divide by 4.

9b. Various answers; for example: divide by 10 then divide by 5; divide by 5 then divide by 10; : divide by 25 then divide by 2; divide by 2 then divide by 25; 10a. 430 children 10b. 900 boxes 11a. 30,600 \div 9 = 3,400 then 3,400 \div 5 = 680 11b. 11,025 \div 9 = 1,225 then 1,225 \div 7 = 175

12a. <mark>4</mark>

12b. <mark>9</mark>

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