Homework/Extension Step 10: Common Multiples

National Curriculum Objectives:

Mathematics Year 6: (6C5) <u>Identify common factors, common multiples and prime</u> <u>numbers</u>

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Sort the multiples of two numbers into the Venn diagram. Includes multiples up to 12 x 12 and multiplication grids to support.

Expected Sort the multiples of two numbers into the Venn diagram. Includes multiples up to and beyond 12 x 12 and partially completed multiplication grids to support.

Greater Depth Sort the multiples of two numbers into the Venn diagram. Includes multiples up to and beyond 12 x 12, and decimal numbers using known times table and number facts i.e. 25 and 12.5. No multiplication grids to support. Includes numbers which do not fit the Venn.

Questions 2, 5 and 8 (Varied Fluency)

Developing Find the common multiples for two numbers. Includes multiples up to 12×12 and multiplication grids to support.

Expected Complete the sequences of common multiples. Includes multiples up to and beyond 12 x 12 and partially completed multiplication grids to support.

Greater Depth Complete the sequences of common multiples. Includes multiples up to and beyond 12 x 12, and decimal numbers using known times table and number facts i.e. 25 and 12.5. No multiplication grids to support.

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

Developing Explain which multiple is the odd one out. Includes multiples up to 12 x 12 and multiplication grids to support.

Expected Explain which pair of numbers is the odd one out. Includes multiples up to and beyond 12 x 12 and partially completed multiplication grids to support.

Greater Depth Explain which pair of numbers is the odd one out. Includes multiples up to and beyond 12 x 12, and decimal numbers using known times table and number facts i.e. 25 and 12.5. No multiplication grids to support.

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Homework/Extension – Common Multiples – Teaching Information



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Homework/Extension – Common Multiples – Year 6 Developing

 $2 \times 12 = 24$

RPS HW/Ext

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5 x 12 = 36

Common Multiples





	Key Facts 4 x 1 = 4 4 x 2 = 8 4 x 5 = 20	4 and 11		126	<u>Key Facts</u> 7 x 1 = 7 7 x 2 = 14 7 x 5 = 35	
	4 x 10 = 40 4 x 12 = 48		5 and 6		7 x 10 = 70 7 x 12 = 84	
	<u>Key Facts</u> 11 x 1 = 11				Key Facts 9 x 1 = 9	
•	$11 \times 2 = 22$ $11 \times 5 = 55$ $11 \times 10 = 110$ $11 \times 12 = 132$	132		7 and 9	9 x 2 = 18 9 x 5 = 45 9 x 10 = 90 9 x 12 = 108	
留	11 × 12 - 132				7 × 12 = 100	RPS HW/Ext

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Common Multiples



Homework/Extension – Common Multiples – Year 6 Greater Depth

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Homework/Extension Common Multiples





2. Various answers, for example: 12, 24, 36, 48, 60, 72.

3. 14 is the odd one out because it is not a common multiple of 2 and 5. It is only a multiple of 2.



5. 9 and 12 – 72, 108, 144; 4 and 7 – 56, 84, 112

6. 5 and 6 is the odd one out because it does not have a matching common multiple. The common multiple of 4 and 11 is 132. The common multiple of 7 and 9 is 126.



8. 25 and 12.5 – 50, 75, 100; 6 and 7 – 84, 126, 168; 5 and 8 – 120, 160, 200.
9. 5.5 and 11 is the odd one out because it does not have a matching common multiple. The common multiple of 4.5 and 9 is 135. The common multiple of 7 and 3.5 is 91.



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