Reasoning and Problem Solving Step 1: Multiples

National Curriculum Objectives:

Mathematics Year 5: (5C5a) <u>Identify multiples and factors, including finding all factor pairs</u> of a number, and common factors of two numbers

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Identify a multiple from given parameters, using multiples of 2, 3, 5 or 10. **Expected** Identify a multiple from given parameters using multiples of numbers up to and including 12.

Greater Depth Identify a multiple from given parameters using multiples of numbers beyond the 12 times tables.

Questions 2, 5 and 8 (Reasoning)

Developing Find the connection between given numbers from a section of a hundred square, using multiples of 2, 3, 5 or 10.

Expected Find the connection between given numbers from a section of a hundred square, using multiples of numbers up to and including 12.

Greater Depth Find the connection between given numbers from a section of a hundred square, using multiples of numbers up to and beyond 12.

Questions 3, 6 and 9 (Reasoning)

Developing Explain why a number is the odd one out, using multiples of 2, 3, 5 or 10. Expected Explain why a number is the odd one out, using multiples of numbers up to and including 12.

Greater Depth Explain why a number is the odd one out, using multiples of numbers up to and beyond 12.

More <u>Year 5 Multiplication and Division</u> resources.

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Reasoning and Problem Solving – Multiples – Teaching Information



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Reasoning and Problem Solving – Multiples – Year 5 Developing



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Reasoning and Problem Solving – Multiples – Year 5 Expected



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Reasoning and Problem Solving – Multiples – Year 5 Greater Depth

Reasoning and Problem Solving <u>Multiples</u>

Developing

1a. 40 or 50
2a. Shaded – multiples of 3; Circles – multiples of 5 and 10
3a. 7 is the odd one out because it is not a multiple of 2.

Expected

4a. 54
5a. Shaded – multiples of 3; Circles – multiples of 7
6a. 98 is the odd one out because it is not a multiple of 12.

Greater Depth

7a. 108 or 126
8a. Shaded – multiples of 5; Circles – multiples of 4
9a. 60 is the odd one out because it is not a multiple of 8.

Reasoning and Problem Solving <u>Multiples</u>

Developing 1b. 24 2b. Shaded – multiples of 2; Circles – multiples of 5 3b. 54 is the odd one out because it is not a multiple of 5.

Expected 4b. 22 or 44 5b. Shaded – multiples of 8; Circles – multiples of 6 or 12 6b. 58 is the odd one out because it is not a multiple of 4.

<u>Greater Depth</u> 7b. 154 8b. Shaded – multiples of 3; Circles – multiples of 12 9b. 92 is the odd one out because it is not a multiple of 7.





Reasoning and Problem Solving – Multiples ANSWERS