# Varied Fluency Step 13: Order of Operations

# National Curriculum Objectives:

Mathematics Year 6: (6C9) <u>Use their knowledge of the order of operations to carry out</u> calculations involving the four operations

# Differentiation:

**Developing** Questions to support using knowledge of the order of operations to solve calculations that include two operations. Using all four operations and tables knowledge up to 12 x 12.

Expected Questions to support using knowledge of the order of operations to solve calculations that include up to three operations. Using brackets and tables knowledge up to 12 x 12.

Greater Depth Questions to support using knowledge of the order of operations to solve calculations that include up to three operations. Using brackets, indices, fractions, decimal numbers and tables knowledge up to 12 x 12.

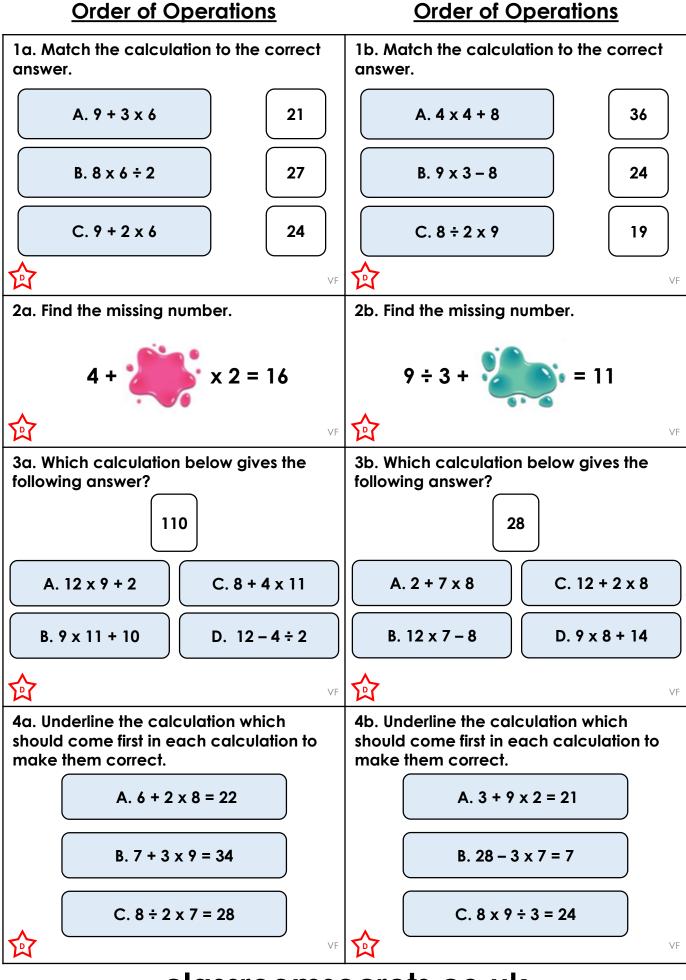
More <u>Year 6 Four Operations</u> resources.

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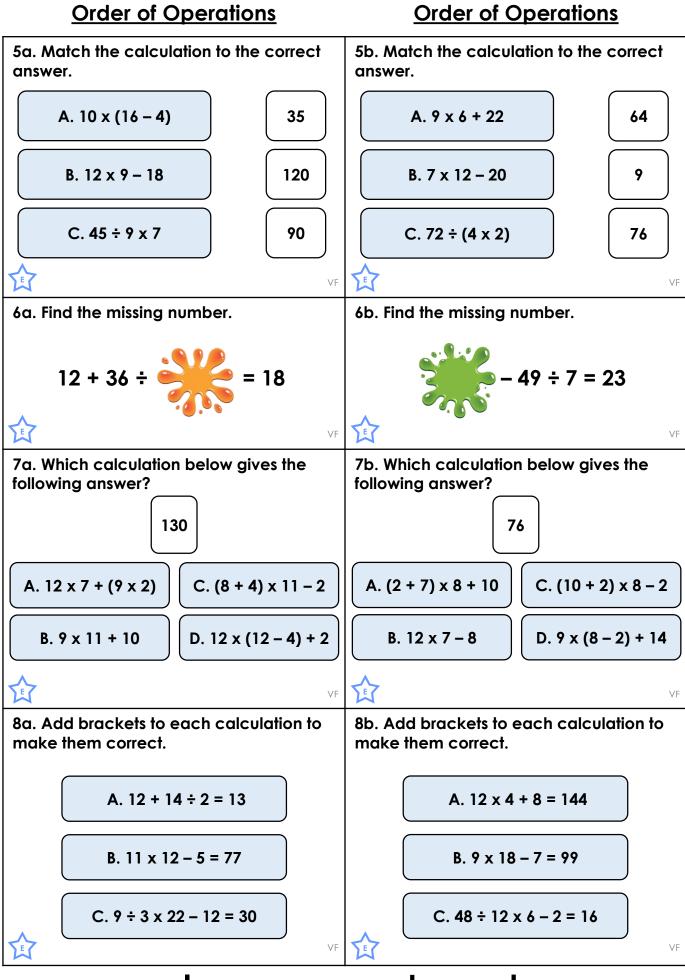
Varied Fluency – Order of Operations – Teaching Information



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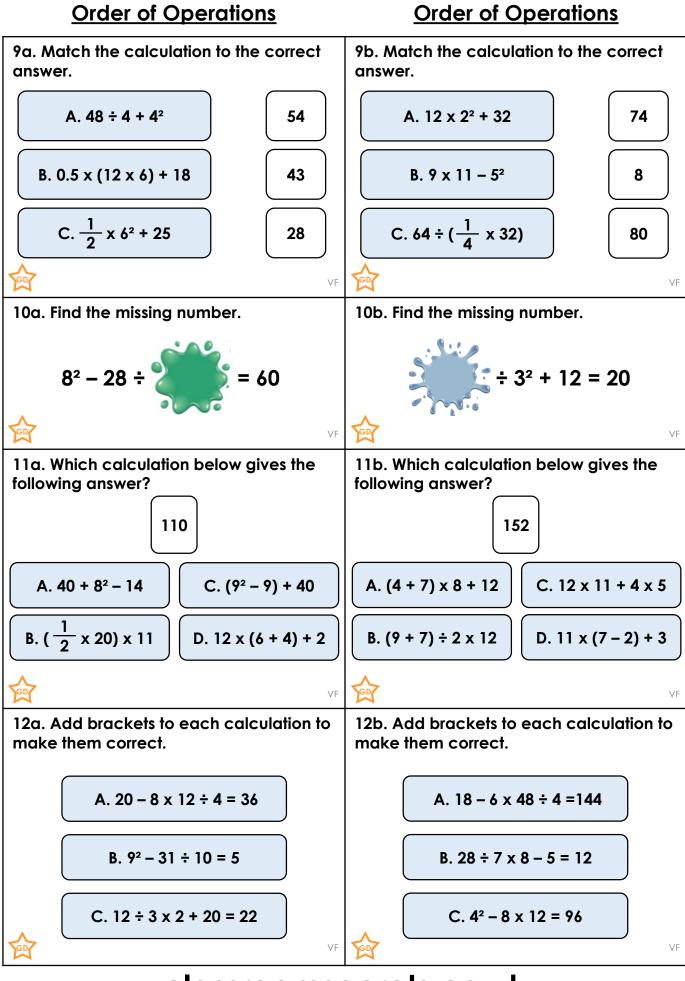
Varied Fluency – Order of Operations – Year 6 Developing



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Varied Fluency – Order of Operations – Year 6 Expected



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Varied Fluency – Order of Operations – Year 6 Greater Depth

## Varied Fluency Order of Operations

#### **Developing**

1a. A. 27; B. 24; C. 21 2a. 6 3a. A 4a. A. 2 x 8; B. 3 x 9; C. 8 ÷ 2

#### **Expected**

5a. A. 120; B. 90; C. 35 6a. 6 7a. C 8a. A. (12 + 14) ÷ 2 = 13; B. 11 x (12 - 5) = 77; C. 9 ÷ 3 x (22 - 12) = 30

### Greater Depth

9a. A. 28; B. 54; C. 43 10a. 7 11a. B 12a. A. (20 - 8) x 12 ÷ 4 = 36 B. (9<sup>2</sup> - 31) ÷ 10 = 5 C. 12 ÷ (3 x 2) + 20 = 22

## Varied Fluency Order of Operations

Developing 1b. A. 24; B. 19; C. 36 2b. 8 3b. C 4b. A. 9 x 2; B. 3 x 7; C. 9 ÷ 3

Expected 5b. A. 76; B. 64; C. 9 6b. 30 7b. B 8b. A.  $12 \times (4 + 8) = 144;$ B.  $9 \times (18 - 7) = 99;$ C.  $48 \div 12 \times (6 - 2) = 16$ 

<u>Greater Depth</u> 9b. A. 80; B. 74; C. 8 10b. 72 11b. C 12b. A.  $(18 - 6) \times 48 \div 4 = 144$ B. 28  $\div$  7 x (8 - 5) = 12C.  $(4^2 - 8) \times 12 = 96$ 



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Varied Fluency – Order of Operations ANSWERS