## Varied Fluency Step 3: Use An Algebraic Rule

## National Curriculum Objectives:

Mathematics Year 6: (6A2) Use simple formulae

## Differentiation:

**Developing** Questions to support using algebraic rules. Using up to 2 steps, addition and subtraction, and multiplication by 2.

Expected Questions to support using algebraic rules. Using up to 2 steps and all 4 operations.

Greater Depth Questions to support using algebraic rules. Using 2 steps and all 4 operations where some answers may include decimals and negative numbers.

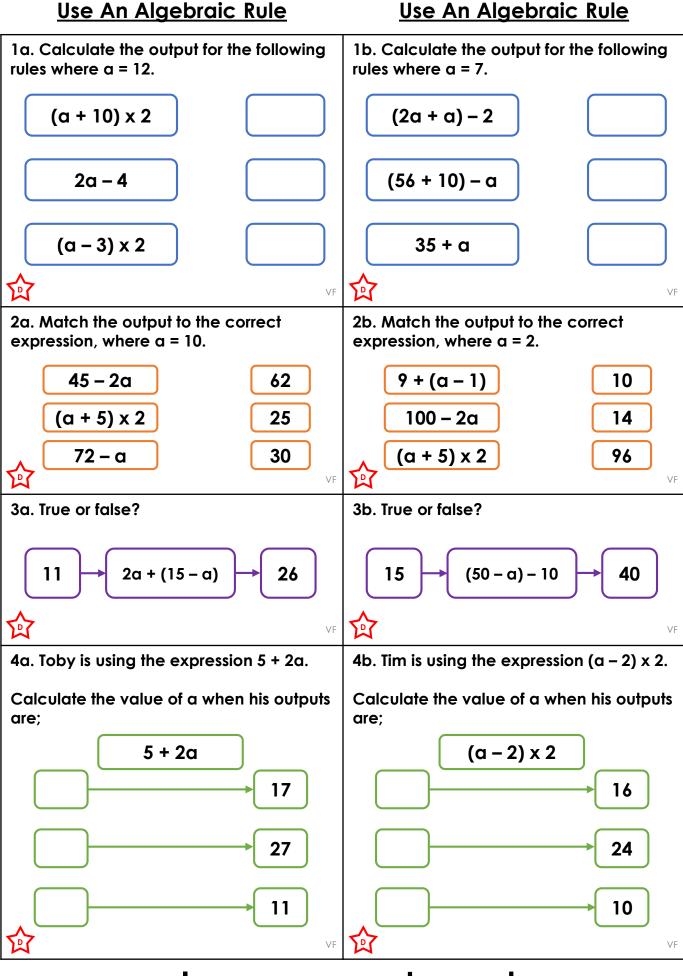
More Year 6 Algebra resources.

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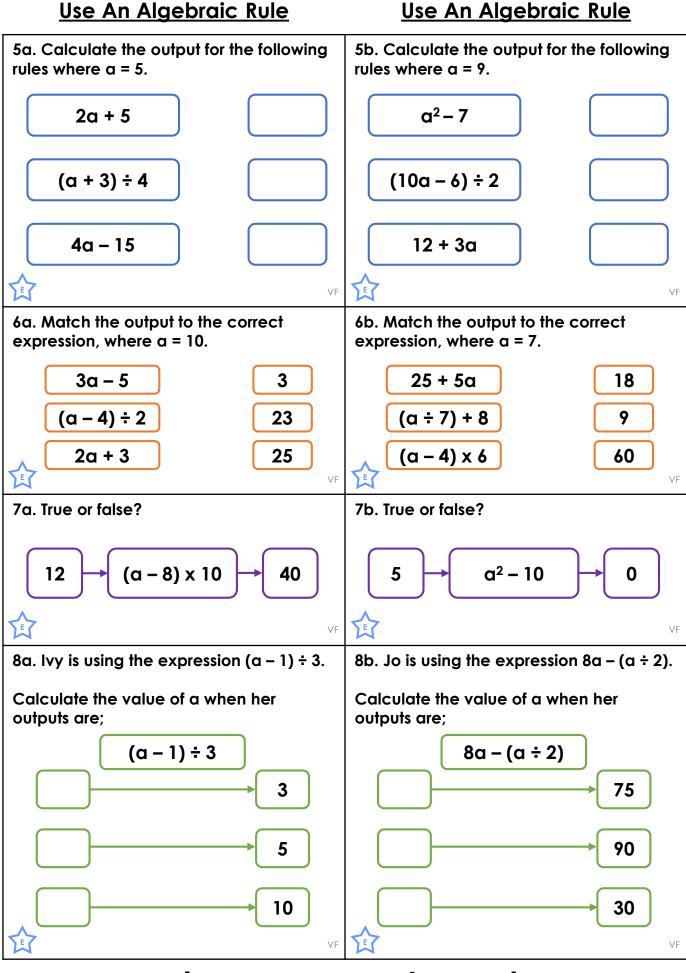
Varied Fluency – Use An Algebraic Rule – Teaching Information



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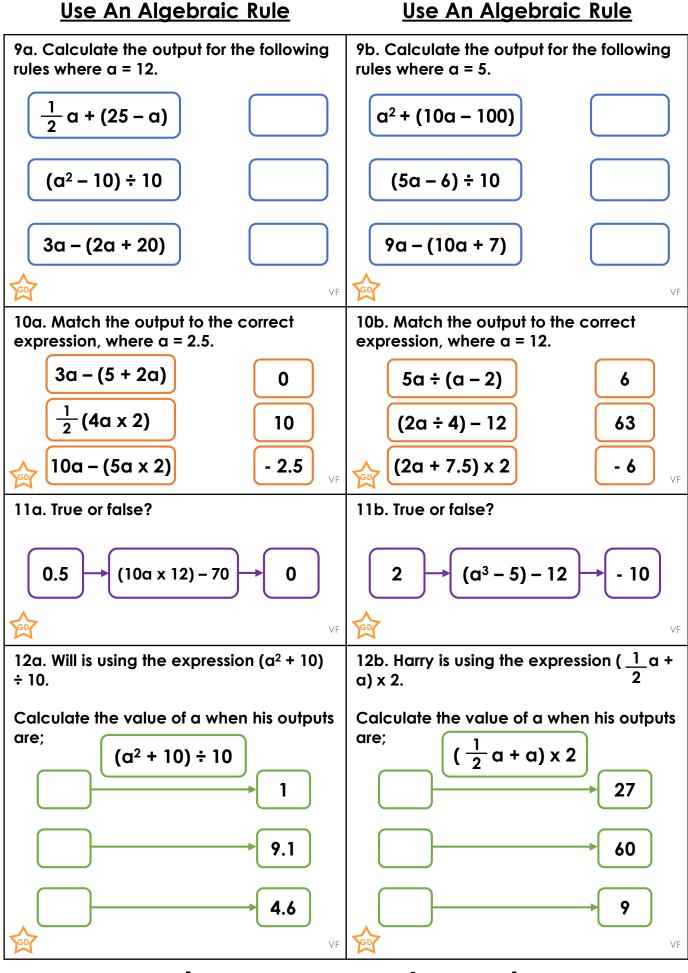
Varied Fluency – Use An Algebraic Rule – Year 6 Developing



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Varied Fluency – Use An Algebraic Rule – Year 6 Expected



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Varied Fluency – Use An Algebraic Rule – Year 6 Greater Depth

### Varied Fluency Use An Algebraic Rule

#### Developing

1a. 44, 20, 18 2a. 45 - 2a = 25; (a + 5) x 2 = 30; 72 - a = 62 3a. True 4a. 6, 11, 3

#### **Expected**

5a. 15, 2, 5 6a. 3a - 5 = 25; (a - 4) ÷ 2 = 3; 2a + 3 = 23 7a. True 8a. 10, 16, 31

#### Greater Depth

9a. 19, 13.4, -8 10a.  $3a - (5 + 2a) = -2.5; \frac{1}{2} (4a \times 2) = 10;$ 10a - (5a × 2) = 0 11a. False, the correct answer is -10. 12a. 0, 9, 6

### Varied Fluency Use An Algebraic Rule

#### <u>Developing</u> 1b. 19, 59, 42

2b. 9 + (a – 1) = 10; 100 – 2a = 96; (a + 5) x 2 = 14 3b. False, the correct answer is 25. 4b. 10, 14, 7

#### Expected 5b. 74, 42, 39 6b. 25 + 5a = 60; (a ÷ 7) + 8 = 9; (a - 4) x 6 = 18. 7b. False, the correct answer is 15. 8b. 10, 12, 4

<u>Greater Depth</u> 9b. -25, 1.9, -12 10b. 5a ÷ (a – 2) = 6; (2a ÷ 4) – 12 = - 6; (2a + 7.5) x 2 = 63 11b. False, the correct answer is -9. 12b. 9, 20, 3



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Varied Fluency – Use An Algebraic Rule ANSWERS