# National Curriculum Objectives:

Mathematics Year 6: (6F2) <u>Use common factors to simplify fractions; use common multiples</u> to express fractions in the same denomination Mathematics Year 6: (6F4) <u>Add and subtract fractions with different denominators and</u> <u>mixed numbers, using the concept of equivalent fractions</u> Mathematics Year 6: (6F5a) <u>Multiply simple pairs of proper fractions, writing the answer in</u> its simplest form [for example,  $1/4 \times 1/2 = 1/8$ ] Mathematics Year 6: (6F5b) <u>Divide proper fractions by whole numbers [for example,  $1/3 \div 2 = 1/6$ ]</u>

## Differentiation:

### Questions 1, 4 and 7 (Varied Fluency)

Developing Tick the calculations which are correct. Each calculation only uses one denominator and pictorial support is provided.

Expected Tick the calculations which are correct. Denominators are direct multiples and questions include some use of mixed numbers.

Greater Depth Tick the calculations which are correct. Denominators are non-direct multiples, and questions include some use of improper fractions and mixed numbers.

#### Questions 2, 5 and 8 (Varied Fluency)

Developing Sort calculations based on whether the answers are greater than or less than one half. Each calculation only uses one denominator.

Expected Sort calculations based on whether the answers are greater than or less than 1. Denominators are direct multiples.

Greater Depth Sort calculations based on whether the answers are greater than or less than 1. Denominators are non-direct multiples.

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

**Developing** Solve a multi-step word problem. Each fraction has the same denominator and pictorial support is provided.

**Expected** Solve a multi-step word problem. Denominators are direct multiples and questions include an improper fraction.

Greater Depth Solve a multi-step word problem. Denominators are non-direct multiples and questions include an improper fraction.

## More <u>Year 6 Fractions</u> resources.

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Homework/Extension – Four Rules with Fractions – Teaching Information

## Four Rules with Fractions



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Homework/Extension – Four Rules with Fractions – Year 6 Developing

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RPS HW/Ext

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Homework/Extension – Four Rules with Fractions – Year 6 Expected



Explain how you know.



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### Homework/Extension Four Rules with Fractions

#### Developing

- 1. B and C should be ticked; A and D are incorrect.
- 2. A. Answer  $<\frac{1}{2}$ ; B. Answer  $<\frac{1}{2}$ ; C. Answer  $>\frac{1}{2}$ 3. There would be  $\frac{2}{12}$  of the seeds in each vegetable patch:  $(\frac{1}{12} + \frac{2}{12} + \frac{7}{12}) \div 5 = \frac{2}{12}$

#### **Expected**

- 4. A and C should be ticked; B and D are incorrect.
- 5. A. Answer > 1; B. Answer < 1; C. Answer < 1 6. There would be  $\frac{3}{12}$  of the seeds in each vegetable patch:  $(\frac{1}{3} + \frac{5}{12} + \frac{3}{6}) \div 5 = (\frac{4}{5} + \frac{5}{5} + \frac{6}{5}) \div 5 = \frac{3}{5}$

$$(\frac{12}{12} + \frac{12}{12} + \frac{12}{12}) \div 5 = \frac{12}{12}$$

#### <u>Greater Depth</u>

- 7. A and B should be ticked; C and D are incorrect.
- 8. A. Answer < 1; B. Answer > 1; C. Answer < 1

9. There would be  $\frac{41}{120}$  of the seeds in each vegetable patch:  $(\frac{2}{3} + \frac{1}{5} + \frac{4}{8}) \div 4 = (\frac{80}{120} + \frac{24}{120} + \frac{60}{120}) \div 4 = \frac{41}{120}$ 



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