# Homework/Extension Step 3: Equivalent Fractions 2

## National Curriculum Objectives:

Mathematics Year 4: (4F2) <u>Recognise and show, using diagrams, families of common</u> equivalent fractions

## Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Fill in missing multipliers and divisors to complete the equivalent fractions. Includes doubling the starting fraction only.

**Expected** Fill in missing multipliers and divisors to complete the equivalent fractions. Includes denominators which are multiples of the starting fraction.

Greater Depth Fill in missing numbers in calculations to complete the equivalent fractions. Includes denominators which share a common factor.

Questions 2, 5 and 8 (Varied Fluency)

**Developing** Fill in missing boxes to show equivalent fractions. Includes doubling the starting fraction only.

**Expected** Fill in missing boxes to show equivalent fractions. Includes denominators which are multiples of the starting fraction.

Greater Depth Fill in missing boxes to show equivalent fractions. Includes denominators which share a common factor.

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

**Developing** Find and explain a mistake when calculating equivalent fractions. Includes doubling the starting fraction only.

Expected Find and explain a mistake when calculating equivalent fractions. Includes denominators which are multiples of the starting fraction.

Greater Depth Find and explain a mistake when calculating equivalent fractions. Includes denominators which share a common factor.

More <u>Year 4 Fractions</u> resources.

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Homework/Extension – Equivalent Fractions 2 – Teaching Information

## Equivalent Fractions 2



Homework/Extension – Equivalent Fractions 2 – Year 4 Developing

# Equivalent Fractions 2



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Homework/Extension – Equivalent Fractions 2 – Year 4 Expected



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Homework/Extension – Equivalent Fractions 2 – Year 4 Greater Depth

### Homework/Extension Equivalent Fractions 2

Developing

1. A:	2, 2; E	3 <mark>: 2</mark> , 2	; C: 2, 2									
2. <mark>A</mark> .	1_	2	A	1	_ 2	4	c <sup>1</sup>	2	4	1	2	4
	3	6	= <u>—</u> ; в.	11	22	44	9	18	- <u>36</u>	D. <u>4</u>	8	16

3. Scarlett has multiplied the numerator by 3 and the denominator by 2. Both numbers need to be multiplied by either 2 or 3 as the same needs to be done to both the numerator and the denominator.

#### **Expected**

4. <mark>A</mark> :	2, 2;	B: 4,	4; C:	7, 7; D	: 6, 6											
5. <mark>A</mark> .	1	2	3	4	1	3	6	9	1	2	4	7	1	2	3	6
	4	8	12		5. 5	15	30	45, C.	3	6	12	21 <sup>°</sup> D	7	14	21	42

6. Robert has not multiplied the numerators and denominators to find the equivalent

fractions, he has added. He should have multiplied the numerator and denominator of

the first fraction by 3 and the second fraction by 6 to find the equivalent fractions.

#### Greater Depth

7. A: 3, x 9, x 9; B: 39, ÷ 3, ÷ 3; C: 9, x 3, x 3; D: 45, ÷ 15, ÷ 15

8. Various answers, for example:

25	10	15	5.	D	6	12	21	3		2	6	4	8		7	49	28	21
A=	12	18	6	D.	10	20	35	5	, C.	7	21	14	<b>28</b> ′	U	12	84	48	36

9. Chloe has incorrectly multiplied 18 by 4, the denominator should be 72 not 54. For the second set of fractions, she has subtracted 36 from the denominator and the numerator, rather than dividing both by the same number.



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