Independent Recap

Fractions

Year 5

THIRD SPACE LEARNING

Arithmetic

1. 274 - 100

2. $\frac{3}{7} + \frac{2}{7}$

3. 46 x 100

4. 84 ÷ 4

Practice: Multiply Unit and Non-Unit Fractions by Integers

5. Recap: Define the terms:
Unit fraction
Non-unit fraction
Integer

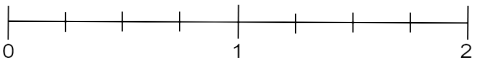
6. Work out $\frac{1}{7}$ x 5 by counting in sevenths.

$\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} =$

7. Use the same method to work out the following:

a. $\frac{1}{6}$ x 5 b. 3 x $\frac{1}{8}$ c. $\frac{1}{5}$ x 4

8. Use a number line and repeated addition to work out $\frac{1}{4}$ x 7.



9. Work out the following:

a. 6 x $\frac{1}{5}$ b. $\frac{1}{3}$ x 8 c. 11 x $\frac{1}{6}$

10. Explain why the denominator does not change when you multiply a fraction by an integer.

11. Use a number line to work out 3 x $\frac{2}{7}$.

12. Work out the following:

a. 3 x $\frac{3}{11}$ b. $\frac{2}{9}$ x 4 c. 4 x $\frac{3}{13}$

13. John says $\frac{1}{2}$ x 4 = $\frac{4}{8}$

Explain John's error.

Challenge

14. Complete the calculations.

$\square$ x $\frac{2}{5} = 1\frac{1}{5}$

5 x $\frac{\square}{6} = 3\frac{2}{6}$ (or $3\frac{1}{3}$)

$\square$ x $\frac{1}{4} = 2\frac{2}{4}$ (or $2\frac{1}{2}$)

You might want to talk to an adult

Spot the mistake

Answers

Q no.	Question	Answer
1	274 - 100	174
2	$\frac{3}{7} + \frac{2}{7}$	$\frac{5}{7}$
3	46 x 100	4,600
4	84 ÷ 4	21
5	Define the terms	Unit fraction - any fraction where the numerator is 1. Non-unit fraction - any fraction where the numerator is over 1. Integer - A whole number.
6	Work out $\frac{1}{7}$ x 5 by counting in sevenths.	$\frac{5}{7}$
7	$\frac{1}{6}$ x 5, 3 x $\frac{1}{8}$, $\frac{1}{5}$ x 4	a. $\frac{5}{6}$, b. $\frac{3}{8}$, c. $\frac{4}{5}$
8	Use a number line and repeated addition to work out $\frac{1}{4}$ x 7.	$\frac{7}{4} = 1\frac{3}{4}$
9	6 x $\frac{1}{5}$, $\frac{1}{3}$ x 8, 11 x $\frac{1}{6}$	a. $1\frac{1}{5}$ b. $2\frac{2}{3}$ c. $1\frac{5}{6}$
10	Explain why the denominator does not change when you multiply a fraction by an integer.	The denominator indicates how many parts the whole has been split into. Pupils will know from adding fractions that they do not add the denominators. As multiplication is repeated addition, this rule applies.
11	Use a number line to work out 3 x $\frac{2}{7}$.	Jumps showing $\frac{2}{7}$, $\frac{4}{7}$, $\frac{6}{7}$ Answer $\frac{6}{7}$
12	3 x $\frac{3}{11}$, $\frac{2}{9}$ x 4, 4 x $\frac{3}{13}$	a. $\frac{9}{11}$, b. $\frac{8}{9}$, c. $\frac{12}{13}$
13	Explain John's error.	John has multiplied the denominator as well as the numerator. The correct answer is $\frac{4}{2}$ or 2.
14	Complete the calculations.	3 4 6