

Independent Recap

Fractions

Year 5

Arithmetic

1. $465 + 100$

2. $\frac{2}{9} + \frac{5}{9}$

3. $37 \div 100$

4. $75 \div 5$

Practice: Multiply Mixed Numbers by Integers

5. Recap: Define these terms:
Mixed number fraction
Improper fraction



6. Use repeated addition to work out $1\frac{3}{4} \times 3$.

7. Use this method to work out the following:

a. $2\frac{1}{3} \times 4$

b. $3 \times 1\frac{1}{5}$

c. $3\frac{3}{4} \times 2$

8. Partition the mixed number to help you solve $1\frac{2}{5} \times 3$.
 $(1 \times 3) + (\frac{2}{5} \times 3)$

9. Use this method to work out the following:

a. $5 \times 2\frac{2}{7}$

b. $1\frac{4}{9} \times 4$

c. $3 \times 2\frac{1}{5}$

10. Multiplication is similar to:
repeated subtraction or repeated addition?
Explain your answer (include fractions).



11. Convert the mixed number to an improper fraction to work out $1\frac{4}{5} \times 3$.

12. Use this method to work out the following:
a. $1\frac{2}{3} \times 5$ b. $2 \times 3\frac{1}{6}$ c. $3\frac{1}{4} \times 3$

13. $2\frac{3}{5} \times 2 = 2\frac{6}{5}$

Explain the mistake.



Challenge

14. Which calculation is the odd one out? Explain your answer.

a. $2\frac{1}{2} \times 4$

b. $3\frac{3}{4} \times 2$

c. $1\frac{2}{8} \times 6$

d. $2\frac{4}{8} \times 3$



You might want
to talk to an adult



Spot the mistake

Answers

Q no.	Question	Answer
1	$465 + 100$	565
2	$\frac{2}{9} + \frac{5}{9}$	$\frac{7}{9}$
3	$37 \div 100$	0.37
4	$75 \div 5$	15
5	Define these terms: Mixed number fraction Improper fraction	A mixed number fraction is a fraction with a whole number and a fraction. An improper fraction is a fraction where the numerator is larger than the denominator.
6	Use repeated addition to work out $1\frac{3}{4} \times 3$.	$1\frac{3}{4} + 1\frac{3}{4} + 1\frac{3}{4} = \frac{21}{4} = 5\frac{1}{4}$
7	$2\frac{1}{3} \times 4$, $3 \times 1\frac{1}{5}$, $3\frac{3}{4} \times 2$	a. $9\frac{1}{3}$, b. $3\frac{3}{5}$, c. $7\frac{2}{4}$ or $\frac{1}{2}$
8	Partition the mixed number to help you solve $1\frac{2}{5} \times 3$.	$3 + \frac{6}{5} = 4\frac{1}{5}$
9	$5 \times 2\frac{2}{7}$, $1\frac{4}{9} \times 4$, $3 \times 2\frac{1}{5}$	a. $11\frac{3}{7}$, b. $5\frac{7}{9}$, c. $6\frac{3}{5}$
10	Multiplication is similar to: repeated subtraction or repeated addition?	Multiplication is similar to repeated addition. Pupils may explain this by showing that a multiplication calculation and related repeated addition calculation have the same answer.
11	Convert the mixed number to an improper fraction to work out $1\frac{4}{5} \times 3$.	$\frac{27}{5} = 5\frac{2}{5}$
12	$1\frac{2}{3} \times 5$, $2 \times 3\frac{1}{6}$, $3\frac{1}{4} \times 3$	a. $\frac{15}{3} = 5$, b. $6\frac{2}{6}$ or $\frac{1}{3}$, c. $9\frac{3}{4}$
13	Explain the mistake.	The pupil has made two errors in this question. First, they have not multiplied the whole number in the mixed number fraction by two. Second, they have not converted the answer to a correct mixed number fraction. The answer should be $5\frac{1}{5}$.
14	Which calculation is the odd one out? Explain your answer.	a. $2\frac{1}{2} \times 4 = 10$ b. $3\frac{3}{4} \times 2 = 7\frac{1}{2}$ c. $1\frac{2}{8} \times 6 = 7\frac{1}{2}$ d. $2\frac{4}{8} \times 3 = 7\frac{1}{2}$ A is therefore the odd one out as it is the only one that doesn't equal $7\frac{1}{2}$ when simplified.