

Y3 Fractions

KS2 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

What is $\frac{1}{4}$ of 12?

Step 1 · Share 12 into 4 equal groups

$$12 \div 4 = 3$$

Step 2 · One group is one quarter

3

Answer: $\frac{1}{4}$ of 12 = 3

Check: 4 groups of 3 make 12 ✓

2. Now try one with the steps

What is $\frac{3}{4}$ of 24?

Step 1 · Step 1: Divide by the denominator (bottom number)

Step 2 · Step 2: Multiply by the numerator (top number)

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. A shape has 3 shaded parts out of 8 equal parts. What fraction is shaded?

2. A shape is cut into 5 equal parts and 1 is shaded. What fraction is shaded?

3. In $\frac{2}{7}$, what is the denominator?

4. Is $\frac{3}{4}$ a unit fraction or a non-unit fraction?

5. Find $\frac{1}{2}$ of 16.

6. Find $\frac{1}{4}$ of 20.

7. Find $\frac{1}{3}$ of 15.

8. Find $\frac{1}{8}$ of 32.

9. Find $\frac{2}{3}$ of 18.

10. Find $\frac{3}{5}$ of 20.

11. A bag has 24 sweets. $\frac{1}{4}$ are red. How many red sweets are there?

12. There are 40 children in a year group. $\frac{3}{8}$ of them walk to school. How many children walk?

13. On a number line from 0 to 1 split into 5 equal parts, what fraction is at the third mark?

14. $\frac{1}{3}$ of a number is 7. What is the number?

4. Before you hand it in

Thinking a bigger denominator means a bigger fraction

More pieces means each piece is smaller. $\frac{1}{2} > \frac{1}{8}$ because halves are bigger than eighths.

Dividing by the top number instead of the bottom

Always divide by the denominator (bottom) first: $24 \div 4 = 6$, then $\times 3 = 18$.

Calling unequal parts 'quarters'

Fractions need EQUAL parts. Check each part is the same size.

Stopping after dividing for a non-unit fraction

$18 \div 3 = 6$ gives ONE third. Two thirds is $6 \times 2 = 12$.