

Y6 Fractions As Decimals

KS2 Y6 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Write $\frac{3}{8}$ decimal.

Step 1 · $\frac{3}{8}$ means $3 \div 8$. Write 3 as 3.000

$$3 \div 8 = 0 \text{ r } 3$$

Step 2 · $30 \div 8$

$$3 \text{ r } 6$$

Step 3 · $60 \div 8$

$$7 \text{ r } 4$$

Step 4 · $40 \div 8$

$$5 \text{ r } 0$$

Answer: 0.375

Check: $\frac{1}{8} = 0.125$ and $3 \times 0.125 = 0.375$ ✓

2. Now try one with the steps

Write $\frac{7}{20}$ decimal.

Step 1 · $20 \times 5 = 100$, so make hundredths

Step 2 · 35 hundredths

Answer:

3. Practice

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

1. Write $\frac{1}{4}$ decimal.

2. Write $\frac{3}{5}$ decimal.

3. Write $\frac{9}{20}$ decimal.

4. Write $13/25$ decimal.

5. Write $1/8$ decimal.

6. Write $7/8$ decimal.

7. Write $3/40$ decimal.

8. Write $1/3$ decimal to 3 decimal places.

9. Write $5/6$ decimal to 3 decimal places.

10. Write $2\frac{3}{8}$ decimal.

11. Order from smallest to largest: 0.4 , $3/8$, 0.38

12. Which is larger: $5/8$ or 0.6 ?

13. Write 0.875 fraction in its simplest form.

14. Ben says $1/8 = 0.8$. Is he right? What is $1/8$ decimal?

15. A ribbon is $\frac{3}{4}$ m long. Another is 0.7 m long. How much longer is the first ribbon? Give the answer decimal.

4. Before you hand it in

$\frac{1}{8} = 0.125$ or $\frac{3}{8} = 0.375$.

A fraction means numerator $\div$ denominator. $3 \div 8 = 0.375$.

Dividing the denominator by the numerator: $\frac{3}{8} = 8 \div 3 = 2.67$.

Top $\div$ bottom: $3 \div 8$. A proper fraction is always less than 1 decimal.

Writing $\frac{1}{3} = 0.3$.

$1 \div 3 = 0.333...$ (it goes on for ever). Round it to the accuracy asked for, such as 0.333 to 3 d.p.