

1. Write $\frac{33}{50}$ as a decimal number.
2. Write $\frac{3}{5}$ as a decimal number.
3. Write $\frac{1}{2}$ as a decimal number.
4. Write $-\frac{1}{2}$ as a decimal number.
5. Write $\frac{9}{10}$ as a decimal number.
6. Write $\frac{5}{8}$ as a decimal number.
7. Write $\frac{1}{3}$ as a decimal number.
8. Write $\frac{3}{4}$ as a decimal number.
9. Write $\frac{8}{25}$ as a decimal number.
10. Write $\frac{2}{9}$ as a decimal number.

KEYS

Remember

- To convert a Fraction to a Decimal manually, follow these steps:
- **Step 1:** Find a number you can multiply by the bottom of the fraction to make it 10, Or 100, or 1000, or any 1 followed by 0s.
- **Step 2:** Multiply both top and bottom by that number.
- **Step 3:** Then write down just the top number, putting the decimal point in the correct spot (one space from the right hand side for every zero in the bottom number)

But... if there is no way to find this needed number, just divide the top of the fraction by the bottom, and read off the answer!!!

1. Write $\frac{33}{50}$ as a decimal number.

Write an equivalent fraction with 100 as the denominator. Then write the decimal number.

$$\frac{33}{50} = \frac{33 \times 2}{50 \times 2} = \frac{66}{100} = 0.66$$

2. Write $\frac{3}{5}$ as a decimal number.

Write an equivalent fraction with 10 as the denominator. Then write the decimal number.

$$\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10} = 0.6$$

3. Write $\frac{1}{2}$ as a decimal number.

Write an equivalent fraction with 10 as the denominator. Then write the decimal number.

$$\frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \frac{5}{10} = 0.5$$

4. Write $-\frac{1}{2}$ as a decimal number.

Start with $\frac{1}{2}$.

Write an equivalent fraction with 10 as the denominator. Then write the decimal number.

$$\frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \frac{5}{10} = 0.5$$

Now write a negative sign on each number:

$$-\frac{1}{2} = -0.5$$

5. Write $\frac{9}{10}$ as a decimal number.

Write the fraction as a decimal number with 1 decimal place.

$$\frac{9}{10} = 0.9$$

6. Write $\frac{5}{8}$ as a decimal number.

There is no way to multiply 8 to become 10 or 100 or any "1 followed by 0s", so, to write the fraction as a decimal, divide the numerator of the fraction by the denominator.

$$\begin{aligned}\frac{5}{8} &= 5 \div 8 \\ &= 0.625\end{aligned}$$

7. Write $\frac{1}{3}$ as a decimal number.

There is no way to multiply 3 to become 10 or 100 or any “1 followed by 0s”, so, to write the fraction as a decimal, divide the numerator of the fraction by the denominator.

$$\begin{aligned}\frac{1}{3} &= 1 \div 3 \\ &= 0.333 \dots\end{aligned}$$

8. Write $\frac{3}{4}$ as a decimal number.

Write an equivalent fraction with 100 as the denominator. Then write the decimal number.

$$\frac{3}{4} = \frac{3 \times 25}{4 \times 25} = \frac{75}{100} = 0.75$$

9. Write $\frac{8}{25}$ as a decimal number.

Write an equivalent fraction with 100 as the denominator. Then write the decimal number.

$$\frac{8}{25} = \frac{8 \times 4}{25 \times 4} = \frac{32}{100} = 0.32$$

10. Write $\frac{2}{9}$ as a decimal number.

There is no way to multiply 9 to become 10 or 100 or any “1 followed by 0s”, so, to write the fraction as a decimal, divide the numerator of the fraction by the denominator.

$$\begin{aligned}\frac{2}{9} &= 2 \div 9 \\ &= 0.222 \dots\end{aligned}$$
