Convert decimals to fractions.

Grade 5 Decimals Worksheet

Convert to fractions and simplify if possible.

1. $0.85 = \frac{85}{100} = \frac{17}{20}$

2. $0.9 = \frac{9}{10}$

3. $0.1 = \frac{1}{10}$

4. $0.4 = \frac{4}{10} = \frac{2}{5}$

5. $0.8 = \frac{4}{5}$

6. $0.95 = \frac{95}{100} = \frac{19}{20}$

7. $0.4 = \frac{4}{10} = \frac{2}{5}$

8. $0.5 = \frac{5}{10} = \frac{1}{2}$

9. $0.75 = \frac{75}{100} = \frac{3}{4}$

10. $0.4 = \frac{4}{10} = \frac{2}{5}$

11. $0.48 = \frac{48}{100} = \frac{12}{25}$

12. $0.9 = \frac{9}{10}$

13. $0.8 = \frac{8}{10} = \frac{4}{5}$

14. $0.25 = \frac{25}{100} = \frac{1}{4}$

15. $0.47 = \frac{47}{100}$

16. $0.08 = \frac{8}{100} = \frac{2}{25}$
Converting Decimals to Fractions

Step 1:

Write down the decimal divided by one, \( \frac{\text{decimal}}{1} \)

Step 2:

Multiply both the numerator and denominator by 10 for every place value after the decimal point. For example, if there are two numbers after the decimal point, then use 100. If there are three then use 1 000, etc.

Step 3:

Simplify the fraction.

Ex. Convert 0.75 to a fraction.

Step 1: Write down 0.75 divided by one:

\[
\frac{0.75}{1}
\]

Step 2: Multiply both the top and bottom by 100 since there are 2 digits after the decimal point

\[
\frac{0.75 \times 100}{1 \times 100} = \frac{75}{100}
\]

Step 3: Simplify

\[
\frac{75}{100} \div 5 = \frac{15}{20} \div 5 = \frac{3}{4}
\]
Converting Mixed Numbers to Decimals

Grade 6 Fraction Worksheet
Convert the following mixed numbers to decimals.

1. \( \frac{5\ 18}{50} = \ 5.36 \)
2. \( 3 \frac{2}{3} = \ 3.6 \)

3. \( 2 \frac{2}{4} = \ 2.5 \)
4. \( 6 \frac{18}{25} = \ 6.72 \)

5. \( 4 \frac{54}{100} = \ 4.54 \)
6. \( 8 \frac{5}{20} = \ 8.25 \)

7. \( 6 \frac{4}{10} = \ 6.4 \)
8. \( 1 \frac{1}{2} = \ 1.5 \)

9. \( 6 \frac{2}{5} = \ 6.4 \)
10. \( 9 \frac{8}{25} = \ 9.32 \)

11. \( 10 \frac{17}{20} = \ 10.85 \)
12. \( 5 \frac{6}{100} = \ 5.06 \)

13. \( 2 \frac{2}{3} = \ 2.6 \)
14. \( 9 \frac{1}{2} = \ 9.5 \)

15. \( 10 \frac{2}{5} = \ 10.4 \)
16. \( 4 \frac{25}{50} = \ 4.5 \)

Convert decimals to mixed numbers

Grade 5 Decimals Worksheet
Convert to fractions and simplify if possible.

1. \( 25.2 = \ 25 \frac{2}{10} = \ 25 \frac{1}{5} \)
2. \( 53.07 = \ 53 \frac{7}{100} \)

3. \( 7.52 = \ 7 \frac{52}{100} = \ 7 \frac{13}{25} \)
4. \( 9.9 = \ 9 \frac{9}{10} \)

5. \( 95.1 = \ 95 \frac{1}{10} \)
6. \( 12.5 = \ 12 \frac{5}{10} = \ 12 \frac{1}{2} \)

7. \( 18.9 = \ 18 \frac{9}{10} \)
8. \( 74.6 = \ 74 \frac{6}{10} = \ 74 \frac{3}{5} \)

9. \( 75.5 = \ 75 \frac{5}{10} = \ 75 \frac{1}{2} \)
10. \( 25.04 = \ 25 \frac{4}{100} = \ 25 \frac{1}{25} \)

11. \( 86.92 = \ 86 \frac{92}{100} = \ 86 \frac{23}{25} \)
12. \( 80.34 = \ 80 \frac{34}{100} = \ 80 \frac{17}{50} \)

13. \( 98.32 = \ 98 \frac{32}{100} = \ 98 \frac{8}{25} \)
14. \( 38.31 = \ 38 \frac{31}{100} \)

15. \( 95.2 = \ 95 \frac{2}{10} = \ 95 \frac{1}{5} \)
16. \( 70.64 = \ 70 \frac{64}{100} = \ 70 \frac{16}{25} \)
\[ \frac{20}{7} = \frac{20 \times 5}{7 \times 5} = \frac{100}{35} = \frac{20}{7} \times \frac{5}{5} = \frac{100 \times 1}{0.35 \times 100} = \frac{2.35}{1} \]

1. Work with the decimal and keep the whole number till the end.

Decimals to Mixed Fractions

\[ \frac{9}{11} \]

2. Convert to improper and use long division

\[ \frac{23}{9} = 2.3 \]

3. \[ \frac{3}{7} = \frac{3}{7} \]

4. \[ \frac{2}{3} = \frac{2}{3} \]

Mixed Fractions to Decimals

Converting between Decimals and Mixed Fractions