

Converting Fractions to Decimals – 2 Methods

I. Equivalent Fractions:

If possible, make an equivalent fraction whose denominator is a power of 10.

Example:

Convert $\frac{3}{25}$ to a decimal.

$$\frac{3}{25} = \frac{12}{100}$$

II. Division

Divide the numerator by the denominator.

Example:

Convert $\frac{3}{25}$ to a decimal

$$25 \overline{) 3.00}$$

If the denominator has ONLY prime factors of 2 or 5, use equivalent fractions

If the denominators has prime factors OTHER than 2 or 5 use division

Convert to decimals.

1. $6/25 =$ _____ 2. $7/8 =$ _____ 3. $1/2 =$ _____

4. $1/5 =$ _____ 5. $1/15 =$ _____ 6. $3/3 =$ _____

7. $3/4 =$ _____ 8. $1/5 =$ _____ 9. $1/12 =$ _____

10. $1/3 =$ _____ 11. $5/8 =$ _____ 12. $2/5 =$ _____

13. $8/25 =$ _____ 14. $27/50 =$ _____ 15. $3/7 =$ _____

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Convert to decimals.

1. $\frac{2}{3} =$ _____ 2. $\frac{11}{25} =$ _____ 3. $\frac{1}{6} =$ _____

4. $\frac{3}{10} =$ _____ 5. $\frac{2}{7} =$ _____ 6. $\frac{4}{9} =$ _____

7. $\frac{14}{25} =$ _____ 8. $\frac{2}{11} =$ _____ 9. $\frac{5}{8} =$ _____

10. $\frac{1}{5} =$ _____ 11. $\frac{83}{100} =$ _____ 12. $\frac{7}{25} =$ _____

13. $\frac{3}{8} =$ _____ 14. $\frac{4}{5} =$ _____ 15. $\frac{1}{2} =$ _____

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1. $1/5 =$ _____ 2. $1/4 =$ _____ 3. $3/8 =$ _____

4. $2/3 =$ _____ 5. $4/5 =$ _____ 6. $1/2 =$ _____

7. $17/25 =$ _____ 8. $4/9 =$ _____ 9. $1/2 =$ _____

10. $7/8 =$ _____ 11. $69/100 =$ _____ 12. $1/6 =$ _____

13. $3/7 =$ _____ 14. $3/4 =$ _____ 15. $5/12 =$ _____