

Early Fractions and Fractional Computations Challenge Problems

Converting Fractions and Decimals



Write the following decimals as fractions.

1. $0.\overline{18} =$

2. $4.\overline{56} =$

3. $0.\overline{54} =$

4. $0.\overline{428751} =$

5. $-\overline{6.937608} =$

6. $1.\overline{840422} =$



Write the following fractions as decimals.

1. $3\frac{69615}{100000} =$

2. $\frac{-4}{3} =$

3. $-1\frac{7}{9} =$

4. $6\frac{11}{17} =$

5. $\frac{-495}{1000} =$

6. $-9\frac{11}{31} =$



ADD, SUBTRACT, MULTIPLY, DIVIDE FRACTIONS



Add the following fractions.

1. $\frac{5}{8} + \frac{11}{3} + \frac{9}{8} =$

2. $\frac{2}{3} + \frac{4}{5} + \frac{3}{2} =$

3. $\frac{41}{21} + \frac{6}{63} + \frac{13}{42} =$



Multiply the following fractions.

1. $\frac{7}{12} \times 5\frac{1}{9} \times \frac{11}{5} =$

2. $1\frac{8}{9} \times \frac{8}{6} \times 3\frac{1}{2} =$

3. $4\frac{6}{7} \times \frac{10}{7} \times \frac{3}{11}$



Divide the following fractions.

1. $13\frac{3}{12} \div 7\frac{3}{5} =$

2. $6\frac{12}{7} \div 2\frac{7}{11} =$

3. $22\frac{11}{3} \div 11\frac{13}{6} =$

Word Problems: Fractional Computations



Solve.

1. Carli has $4\frac{1}{2}$ walls left to paint in order for all the bedrooms in her house to have the same color paint. However, she has used almost all of her paint and only has $\frac{5}{6}$ of a gallon left. How much paint can she use on each wall in order to have enough to paint the remaining walls? Draw a model to support your solution.

2. Yasmine is serving ice cream with the birthday cake at her party. She has purchased $19\frac{1}{2}$ pints of ice cream. She will serve $\frac{3}{4}$ of a pint to each guest. How many guests can be served ice cream? Draw a model to support your solution.

3. Yasmine needs to create invitations for the party. She has $\frac{3}{4}$ of an hour to make the invitations. It takes her $\frac{1}{12}$ of an hour to make each card. How many invitations can Yasmine create? Draw a model to support your solution.



1. Chandler tells Aubrey that the decimal value of $\frac{1}{17}$ is not a repeating decimal. Should Aubrey believe him? Explain.

2. $\frac{153}{248}$

This decimal is classified as a _____ decimal.

3. $\frac{74}{333}$

This decimal is classified as a _____ decimal.