

1. Represent the following fractions as decimals:

a. $\frac{3}{2000}$, b. $\frac{17}{40}$; c. $\frac{28}{140}$; d. $\frac{7}{4}$; e. $\frac{3}{2}$; f. $\frac{9}{5}$;

Example:

$$\frac{783}{540} = \frac{783:27}{540:27} = \frac{29}{20} = \frac{29 \cdot 5}{20 \cdot 5} = \frac{145}{100} = 1.45$$

2. Write as a fraction

a. $0.\bar{5}$, b. 0.5 , c. $0.\bar{7}$, d. 0.7 , e. $0.1\bar{2}$, f. $0.\bar{12}$, g. 0.12

3. Evaluate:

a. $\frac{1\frac{1}{2} \cdot 2\frac{2}{3} \cdot 0.36}{0.6 \cdot 2\frac{1}{4} \cdot 1\frac{1}{3}}$; b. $\frac{0.38 \cdot 0.17 \cdot 2\frac{2}{15} \cdot 2.7}{5.1 \cdot 3\frac{4}{5} \cdot 0.064}$

4. An orange costs 2 cents more than an apple. A grapefruit costs as much as 3 oranges. A fruit basket consists of 10 apples, 5 oranges, and a grapefruit.

- (a) If the price of an apple is a , what is the price of an orange? a grapefruit?
 (b) If the fruit basket costs \$1.96, how much each of the fruits cost?

5. How many multiples of 3 are there between 1 and 1400? How many multiples of 3 are there between 1000 and 1400?

6. Compute:

a. $-4 - (-9)$; b. $-(-8 + (-4))$; c. $-3 - (9 + (-6))$;
 d. $-3 - (-7) + (-5)$; e. $-2 \cdot (-5) \cdot (-2)$ f. $-\frac{3}{5} - (-1\frac{1}{5}) =$

7. If you take half my age and add 7, you get my age 13 years ago. How old am I?

Simplify the expressions:

a. $2^4 + 2^4$; b. $2^m + 2^m$; c. $2^m \cdot 2^m$;
 d. $3^2 + 3^2 + 3^2$; e. $3^k + 3^k + 3^k$; f. $3^k \cdot 3^k \cdot 3^k$;