

General Education Placement Review

Calculators are not allowed

1. Round 1345.654 to the nearest tenth, nearest hundred, and nearest whole number.

2. Which of the following statement are true.

- a) $-4 < 2$, b) $8.323 < 8.2342$ c) $4 < -2$ d) $-4 = 4$ e) $3.400 = 3.4$

3. Calculations with fractions

$$\frac{1}{12} + \frac{5}{12} = \quad , \quad \frac{1}{12} + \frac{7}{20} = \quad , \quad \frac{1}{6} - \frac{1}{7} = \quad , \quad \frac{19}{15} - \frac{1}{15} =$$

$$\frac{6}{7} \times \frac{7}{9} = \quad , \quad \frac{8}{17} \times \frac{51}{64} = \quad , \quad \frac{8}{3} \div \frac{5}{6} = \quad , \quad \frac{21}{50} \div \frac{54}{25} =$$

4.

$$1 + ^{-}4 = \underline{\hspace{2cm}}, \quad ^{-}5 + 8 = \underline{\hspace{2cm}} \quad , \quad ^{-}17 - ^{-}8 = \underline{\hspace{2cm}}, \quad 13 - ^{-}7 = \underline{\hspace{2cm}}$$

$$^{-}4 \div 1 = \underline{\hspace{2cm}}, \quad ^{-}54 \div ^{-}9 = \underline{\hspace{2cm}}$$

5.

$$0.52 + 0.2 = \underline{\hspace{2cm}}, \quad 23.05 + 0.2841 = \underline{\hspace{2cm}},$$

$$2.03 - 5.326 = \underline{\hspace{2cm}}, \quad 2.025 \times 2.5 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 0.025 \overline{)30} \\ 1.5 \overline{)0.003} \end{array}$$

6. Changing percent to decimals and decimals to percents

$$52\% \underline{\hspace{2cm}}, \quad 325\% \underline{\hspace{2cm}} \quad 0.24 \underline{\hspace{2cm}} \quad 1.34 \underline{\hspace{2cm}}$$

7.

Solve: $2x = 6$, $x - 4 = 10$, $11x = 52$ $5(x - 2) = 7x$

8. Solve proportions

$$\frac{x}{4} = \frac{7}{12} \qquad \frac{3}{15} = \frac{5}{x} \qquad \frac{24}{x} = \frac{3}{\frac{1}{2}}$$

9. Order of operations

a) Evaluate $\frac{4}{3} - \frac{1}{3n}$, when $n = 5$.

b) $\frac{3-4}{5+2} + 2$

c) $4 \div 2 \times 6 + 5$

10. Solve the following problems

a) 4 less than 6 times 3

b) 2 more than the product of 6 and 10

c) Johnny paid \$200 on a loan each month for 5 years. What is the total that he paid on the loan?

d) If \$43, \$500, and \$72 are shared by 3 people, what is the dollar amount each person should receive?

e) There are 2 items. The ratio of the values of the 1st to the 2nd is 5: 2. The total value of the items is \$21. What is the value of the first item?

f) If the sales tax is 7.5% what is total with tax for a purchase of \$8.