

Math 201 - Calculation Skills Test

1. a.) Round 216.438 to the nearest 10^{th} : _____
 b.) Round 216.438 to the nearest 10: _____

2. Evaluate: $2 + 3 \times 4 - 6 \div 2$ _____

3. Complete each calculation below.

- | | | | |
|------------------------|--------------------------|-------------------------|--|
| a.) $-4 + -2$ _____ | b.) $-5 + 12$ _____ | c.) $-7 - -3$ _____ | |
| d.) $-5 - 3$ _____ | e.) -3×-5 _____ | f.) 6×-8 _____ | |
| g.) $10 \div -2$ _____ | h.) $-24 \div -3$ _____ | | |

4. Complete each calculation below. Circle your answer. State the answer to part d as quotient and remainder.

a.)
$$\begin{array}{r} 6508 \\ 957 \\ 26 \\ + 9804 \\ \hline \end{array}$$

b.)
$$\begin{array}{r} 352,786 \\ - 3,009 \\ \hline \end{array}$$

c.)
$$\begin{array}{r} 947 \\ \times 21 \\ \hline \end{array}$$

d.) $31 \overline{) 3013}$

5. Reduce the fraction below to lowest terms: _____

$$\frac{45 \times 22 \times 24}{11 \times 15 \times 18}$$

6. Complete each calculation below and circle your answer to parts a and b. Reduce answers to lowest terms.

a.)
$$\begin{array}{r} 3\frac{1}{2} \\ 2\frac{3}{4} \\ + 5\frac{1}{6} \\ \hline \end{array}$$

b.)
$$\begin{array}{r} 12\frac{2}{5} \\ - 4\frac{5}{6} \\ \hline \end{array}$$

c.) $4\frac{2}{5} \times 2\frac{3}{4} =$ _____

d.) $\frac{8}{15} \div \frac{14}{25} =$ _____

7. Complete each calculation below and circle your answer. Round the quotient in part d to the hundredths position.

a.)
$$\begin{array}{r} 6.428 \\ 2965.135 \\ + 130.3015 \\ \hline \end{array}$$

b.) Subtract 7.637
from 142.5

c.)
$$\begin{array}{r} 4.363 \\ \times 5.2 \\ \hline \end{array}$$

d.) $2.43 \overline{) 216.7}$

8. Simplify each expression below. Write all results with positive exponents only.

a.) $(2^4)^2 = \underline{\hspace{2cm}}$

b.) $(4x^5)^2 = \underline{\hspace{2cm}}$

c.) $(3x)^{-3} = \underline{\hspace{2cm}}$

d.) $(1527x^{22}y^4)^0 = \underline{\hspace{2cm}}$

9. Evaluate:

a.) $\frac{1}{\frac{1}{3} + 2} = \underline{\hspace{2cm}}$

b.) $\frac{\sqrt{48}}{\sqrt{3}} = \underline{\hspace{2cm}}$

c.) $(32)^{\frac{4}{5}} = \underline{\hspace{2cm}}$

10. Evaluate: $f(a + 2)$ if $f(x) = 2x - 3$

11. Simplify. $\frac{x^2 + 4x - 5}{x + 5} =$

12. Classify each of the following as true or false by circling the correct letter.

a.) T F $2(x + 2)^2 = (2x + 4)^2$

b.) T F $3\left(\frac{a}{b}\right) = \frac{3a}{3b}$