Algebra Test 1

Work in your NOTEBOOK!

1. Evaluate:

   (a) $3 \cdot 4$

   (b) $12 - 7$

   (c) $7 - 12$

   (d) 4^2

   (e) $7 - 2 \cdot 3$

   (f) $4 \cdot (7 - 2)$

   (g) $6 - 8/2$

2. Substitute $x = 2, y = -12, z = 4$ into the expression $xy - z$

3. Compare the following decimals with $<, >$ or $=$:

   (a) 0.5_____0.4

   (b) 0.415_____0.5

   (c) 3.1_____3.10

4. Evaluate:

   (a) $3.4 + 5.2$

   (b) $9.5 - 3.7$

   (c) $15.4 \div 4$

5. Substitute $x = 0.6, y = 4.2$ into xy.

6. Write in scientific notation:

   (a) 54000

   (b) 514

   (c) 0.0054

7. Write each number as a decimal number

   (a) 6.7×10^3

   (b) 5.14×10^{-3}

8. Add or subtract the following fractions

   (a) $\frac{1}{5} + \frac{3}{5}$

   (b) $\frac{1}{4} + \frac{1}{5}$

   (c) $\frac{7}{3} - \frac{3}{4}$

9. Compare the fractions using $<, >$ and $=$:

   (a) $\frac{2}{7}$ _____ $\frac{1}{7}$

   (b) $\frac{-8}{9}$ _____ $\frac{2}{9}$

   (c) $\frac{3}{5}$ _____ $\frac{4}{7}$

10. Simplify the following fractions:

   (a) $\frac{3}{6}$

   (b) $\frac{10}{18}$

11. Convert the following fractions to decimals:

   (a) $\frac{1}{4}$

   (b) $\frac{3}{7}$

12. Convert the following decimals to fractions and **simplify**:

   (a) 0.5

   (b) 0.7