

Review IIIA - Unit 3

Show all of your work.

1. Order the following rational numbers from least to greatest.

3.12, $-\frac{4}{3}$, 0.9, $-\frac{1}{2}$, -0.4 _____

2. Write 3 rational numbers between each pair of numbers.

a. -3.5 and -3.1 _____

b. $\frac{1}{5}$ and $\frac{7}{10}$ _____

c. 0.8 and 0.9 _____

3. On one day, the prices of 5 stocks changed by the following amounts in dollars:

-0.09 -0.51 +0.95 +0.54 -2.00

Order the amounts from the **greatest loss** to the **greatest gain**.

What is the average change for the above 5 stocks?

4. Determine each sum.

a. $-1.2 + (-0.3) =$

b. $134.89 + (-56.45) =$

c. $-23.6 + 4.57 =$

d. $48.05 + 0.003 =$

5. Determine each difference.

a. $-3.4 - (-4.8) =$

b. $-71.91 - 11.23 =$

c. $90.74 - 100.38 =$

d. $63.2 - 80.02 =$

6. The temperature in Richmond BC at 4:00 pm was 2°C . The temperature drops 1.3°C each hour. What will the temperature be at 11:00 pm? Show all work.

7. Determine each product.

a. $3.5 \times (-0.3) =$

b. $(-4.1)(2.3) =$

c. $\left(-\frac{4}{7}\right)\left(-\frac{2}{3}\right) =$

d. $\left(1\frac{3}{5}\right) \times \left(-2\frac{1}{2}\right) =$

8. Write 3 division statements that have the same quotient as $\left(\frac{3}{8}\right) \div \left(-\frac{5}{11}\right) =$.

9. Determine each quotient.

a. $8.4 \div (-1.2) =$

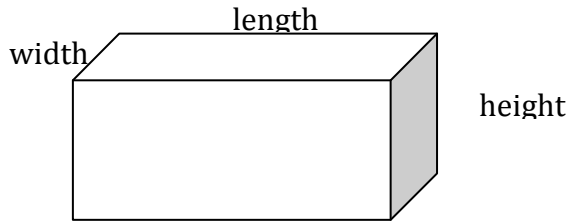
b. $(-20.6) \div (-0.9) =$

c. $\left(-\frac{9}{11}\right) \div \left(\frac{7}{5}\right) =$

d. $\left(-1\frac{2}{3}\right) \div \left(3\frac{1}{2}\right) =$

10. A formula for the surface area of a right rectangular prism is.

$$2(\text{length} \times \text{width} + \text{length} \times \text{height} + \text{width} \times \text{height})$$



a. Determine the surface area of a right rectangular prism with length 25.3 cm, width 15.2 cm, and height 9.7 cm.

b. Explain how you used the order of operations in part a.

11. Evaluate each expression. Make sure your work has the steps of the order of operations.

a. $\left(-\frac{5}{12}\right) + \left(\frac{4}{3}\right)\left(\frac{4}{3}\right) =$

b. $\left(-\frac{2}{3}\right)\left(\frac{2}{3}\right) \div \left(\frac{2}{9}\right) - \left(-\frac{4}{5}\right) =$

c. $\left(-1\frac{3}{7}\right) \times \left(\frac{1}{2}\right) + \left(-3\frac{1}{7}\right) =$

d. $(0.2 + 0.9)^2 + 9.8 \div (-0.7) =$