

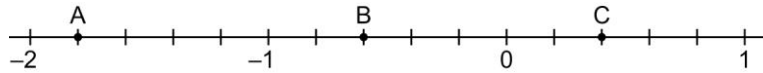
**EXAM REVIEW GRADE 9**  
**Unit 3 – Rational Numbers**

Name: \_\_\_\_\_ Class: \_\_\_\_\_

1. Order the numbers from greatest to least.

$$-3.1, \frac{5}{3}, -1.2, -\frac{1}{7}, 0.6$$

2. Write the rational number represented by each letter as a fraction.



3. Determine each sum or difference.

a)  $-\frac{3}{5} + \left(-\frac{2}{3}\right)$

b)  $\frac{3}{8} - \left(-1\frac{1}{4}\right)$

c)  $-4.1 - 3.5$

d)  $-53.9 - (-19.4)$

4. A technician checked the temperature of a freezer and found that it was  $-15.7^{\circ}\text{C}$ . She noted that the temperature had dropped  $7.8^{\circ}\text{C}$  from the day before. What was the temperature the day before?

5. Determine each product or quotient.

a)  $-\frac{1}{4} \times \left(-\frac{3}{5}\right)$

b)  $\left(-2\frac{1}{5}\right) \div \left(-4\frac{3}{4}\right)$

c)  $(-0.32) \div 1.6$

d)  $0.9 \times (-1.2)$

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6. A thermometer on a freezer is set at  $-5.5^{\circ}\text{C}$ . Each time the freezer door is opened, the temperature increases by  $0.3^{\circ}\text{C}$ . Suppose there is a power outage. How many times can the door be opened before the temperature of the freezer increases to  $5^{\circ}\text{C}$ ? Show how you found your answer.

7. A dump truck can hold  $3\frac{3}{4}$  tonnes of gravel. How many trips are needed to move 35 tonnes of gravel using this truck?

8. Evaluate:

a)  $0.84 \times (-0.5) - (-2.3)$

b)  $\left(-\frac{1}{2}\right) + \frac{3}{5} \div \left[\frac{9}{10} - \left(-\frac{3}{5}\right)\right]$

9. Evaluate:

a)  $-5.8 - 3.1 \times 0.5$

b)  $-4\frac{2}{3} \div \left[\left(-\frac{1}{3}\right) + 4\frac{1}{6}\right] + \left(-3\frac{2}{5}\right)$

10. Evaluate with a calculator. Round to the nearest hundredth if necessary.

$$\frac{-8.6 \times 14.6 - 5.3 \div [(-19.4) - 8.6]}{(-2.9) \times 6.3 - (-9.5)}$$