3.4/3.5 Practice – Multiplying/Dividing Rational Numbers

1. Predict the sign, then determine each product.

   a) $(-1.2) \times 0.3$ **b)** $0.34 \times (-0.5)$ **c)** $(1.19)(-13.2)$ **d)** $(-8.65)(-1.6)$

2. Determine each quotient, rounding to the nearest hundredth.

   a) $16.4 \div (-5.5)$ **b)** $(-0.98) \div 12.4$

3. Determine each product or quotient.

   a) $\dfrac{2}{5} \times \left(-\dfrac{1}{2}\right)$ **b)** $\left(-\dfrac{3}{2}\right) \times \left(\dfrac{1}{7}\right)$ **c)** $\left(-\dfrac{3}{4}\right) \times \left(-\dfrac{4}{5}\right)$

   d) $\dfrac{1}{5} \div \left(-\dfrac{2}{5}\right)$ **e)** $\left(-\dfrac{2}{3}\right) \div \left(\dfrac{5}{6}\right)$ **f)** $\left(-\dfrac{3}{4}\right) \div \left(-\dfrac{5}{2}\right)$

   g) $\dfrac{5}{9} \div \left(-\dfrac{2}{3}\right)$ **h)** $\left(\dfrac{10}{7}\right)\left(-\dfrac{13}{8}\right)$ **i)** $\left(-4\dfrac{3}{5}\right)\left(-2\dfrac{5}{12}\right)$

j) $3\frac{1}{2} \div \left(-2\frac{1}{6}\right)$ **k)** $\left(-2\frac{1}{5}\right) \div \left(-4\frac{3}{4}\right)$

4. From November 12th to November 21st, the temperature in Burnaby, B.C. dropped an average of 1.7°C each day. Suppose the temperature on the morning of November 12th was 11.4°C. What was the temperature on the morning of November 21st?

5. A diver descends 3.2 m in 5 min. What was his average rate of descent in metres per minute?

3.4/3.5 Practice – Answers
1. a) –0.36   **b)** –0.17   **c)** –15.708   **d)** 13.84
2. a) –2.98   **b)** –0.08
3. a) $-\frac{1}{5}$ **b)** $-\frac{3}{14}$ **c)** $\frac{3}{5}$ **d)** $-\frac{1}{2}$ **e)** $-\frac{4}{5}$ **f)** $\frac{3}{10}$ **g)** $-\frac{5}{6}$ **h)** $-2\frac{9}{28}$
   i) $11\frac{7}{60}$ **j)** $-1\frac{8}{13}$ **k)** $\frac{44}{95}$
4. –3.9°C
5. -0.64, so the average rate of descent is 0.64 m/min.