Learning Outcomes Covered:

3D: I can multiply rational numbers.

CONTENT Assessment Questions:

1. Determine each product,

a)
$$\frac{2}{5} \times \left(-\frac{1}{2}\right) = \frac{|X-1|}{5 \times 1}$$

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

c)
$$\left(\frac{40}{7}\right)\left(-\frac{13}{8}\right)_{4}$$

= $\frac{5\times(-13)}{7\times4}$

d)
$$\left(-4\frac{3}{5}\right)\left(-2\frac{5}{12}\right)$$

= $\frac{-23}{5} \times \frac{-29}{12}$

$$= -65$$
 $= -29$
 $= -28$

$$=\frac{667}{60}$$
 $=\frac{117}{60}$

2. Predict the sign of each product. Determine each product.

$$\frac{a) (-1.2) \times 0.3}{ = -0.36}$$

$$0.34$$
 e) $(-0.6)\times(-0.15)$
 $\times 0.5$
 0.17° = 0.09

3. 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?

$$= 11.4 - 15.3$$

 $= -3.9^{\circ}C$

CURRICULAR COMPETENCIES Questions:

1. A positive rational number is multiplied by a negative rational number. Is it possible that the product is closer to 0 than either of the numbers being multiplied? Include examples and explain your reasoning. (RA)

Yes, for example $\frac{1}{2} \times \frac{-1}{2} = \frac{-1}{4}$

= 1 Ts closer to 0 than those

2 numbers.

ONGOING LEARNING ACTIVITIES:

CORE: Page 127: Curricular Competencies: 3, 4, 6, 14

Content: 5, 7, 9, 10, 12, 15

ADVANCED: Page 129: 16, 18