Dividing Fractions: Check Your Readiness (A)

1. Select **all** the fractions that are greater than $\frac{1}{2}$.

   A. $\frac{3}{5}$

   B. $\frac{7}{13}$

   C. $\frac{7}{15}$

   D. $\frac{10}{7}$

   E. $\frac{100}{200}$

   F. $\frac{1000}{2001}$

2. Select **all** the situations that can be represented by $\frac{1}{2} \cdot 5$. Explain your choices.

   a. Diego lives 5 miles from school, and Elena lives $\frac{1}{2}$ as far away as Diego. How many miles does Elena live from school?

   b. Jada has 5 bottles that each contain $\frac{1}{2}$ liter of water. How many liters of water is that in total?

   c. Noah has 5 meters of rope. How many pieces of rope of length $\frac{1}{2}$ meter can he cut from it?

   d. Lin's goal is to run 5 miles. She ran $\frac{1}{2}$ mile. What fraction of her goal is that?

3. Order these numbers from least to greatest. 0, 1, $\frac{1}{2}$, $\frac{8}{9}$, $\frac{49}{100}$, $\frac{11}{20}$, $\frac{1}{13}$

4. Noah has 5 meters of rope. How many pieces of rope of length $\frac{1}{2}$ meter can he cut from it? Draw a diagram to illustrate your solution.

5. What is $3 \div 4$? Draw a diagram that explains how you know.

6. Compute:

a. $\frac{5}{6} \cdot \frac{10}{11}$

b. $9 \div \frac{1}{4}$

c. $\frac{1}{5} \div 3$

d. $\frac{9}{4} + \frac{2}{3}$

e. $\frac{9}{4} - \frac{2}{3}$

7. A rectangular prism has dimensions of 8 cm by 9 cm by 10 cm. What is its volume?