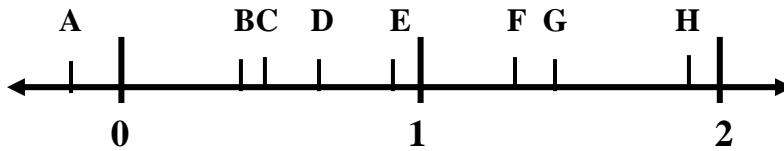


## Pre 2.4b Fraction Multiplication and Division Assessment

### I. SURPRISE! What size is the answer?



- 1) If the fractions represented by points C and E are multiplied, what point on the number line best represents the product? Explain the size of the answer.
- 2) If the fractions represented by the points D and H are multiplied, what point on the number line best represents the product? Explain the size of the answer.
- 3) Suppose 30 is multiplied by the number represented by D. Estimate the product. Explain the size of the answer.
- 4) Suppose 30 is divided by the number at point C on the number line. Estimate the quotient. Explain the size of the answer.
- 5) Suppose the number represented by point G on the number line is divided by the number represented by point C on the number line, Estimate the quotient. Explain the size of the answer.
- 6) Suppose the number represented by point G on the number line is divided by the number represented by point D on the number line, Estimate the quotient. Explain the size of the answer.

## II. Multiplication and Division of Fractions. (Draw and Solve)

1)  $\frac{3}{4} * \frac{5}{6} =$  \_\_\_\_\_

Draw



Explain the product.

2)  $\frac{1}{3} * (2 \text{ and } \frac{1}{4})$

Draw

Explain the product.

3)  $7 \div \frac{2}{3}$  Draw the problem and solution. Explain the quotient.

5) A bookshelf measures 2 and  $\frac{1}{2}$  feet. How many could you fit against a wall that measures 18 feet? \_\_\_\_\_

Draw the problem and solution.

Write a fraction problem for this question. Show the solution

6) If it takes 1 and  $\frac{3}{4}$  yards of fabric to make a jacket and each of the six people on the cheering squad needs a jacket, how much fabric should you buy?

Draw the problem and solution.

Write a fraction problem for this question. Show the solution.

### III. MAXIMIZE and MINIMIZE THE RESULTS

1) Fill in the boxes below with numbers between 2 and 9 so that the operations on fractions produce the largest possible answer.

$$\frac{\square}{\square} + \frac{\square}{\square} =$$

$$\frac{\square}{\square} - \frac{\square}{\square} =$$

$$\frac{\square}{\square} \times \frac{\square}{\square} =$$

$$\frac{\square}{\square} \div \frac{\square}{\square} =$$

2) Fill in the boxes below with numbers 1 through 6 to produce

a) the number with the greatest value

b) the number with the least possible value.

$$\frac{\square}{\square} \times \frac{\square}{\square} - \frac{\square}{\square} =$$

$$\frac{\square}{\square} \times \frac{\square}{\square} - \frac{\square}{\square} =$$

3) Fill in the boxes below with numbers between 2 and 9 so that the operations on fractions produce the least possible answer.

$$\frac{\square}{\square} + \frac{\square}{\square} =$$

$$\frac{\square}{\square} - \frac{\square}{\square} =$$

$$\frac{\square}{\square} \times \frac{\square}{\square} =$$

$$\frac{\square}{\square} \div \frac{\square}{\square} =$$