3-9 **Homework**

Name _____ Date _____

Predict whether the product will be greater than, less than, or equal to the second factor. Then compute the product.

1. $\frac{4}{5} \cdot 6 = x$

Predict: x ◯ 6

Compute: $x =$ _____

2. $1\frac{1}{9} \cdot 6 = x$

Predict: x ◯ 6

Compute: $x =$ _____

3. $\frac{10}{10} \cdot 6 = x$

Predict: x ◯ 6

Compute: $x =$ _____

4. $\frac{2}{2} \cdot \frac{5}{6} = x$

Predict: x ◯ $\frac{5}{6}$

Compute: $x =$ _____

5. $\frac{5}{6} \cdot \frac{5}{6} = x$

Predict: x ◯ $\frac{5}{6}$

Compute: $x =$ _____

6. $1\frac{1}{3} \cdot \frac{5}{6} = x$

Predict: x ◯ $\frac{5}{6}$

Compute: $x =$ _____

Solve. *Show your work.*

7. James is $1\frac{3}{7}$ times as tall as his brother. His brother is $3\frac{1}{2}$ feet tall.

Is James's height more or less than $3\frac{1}{2}$ feet?

_____

How tall is James?

_____

8. South Middle School has 750 students. North Middle School has $\frac{13}{15}$ times as many students as South.

Does North Middle School have more or fewer than 750 students?

_____

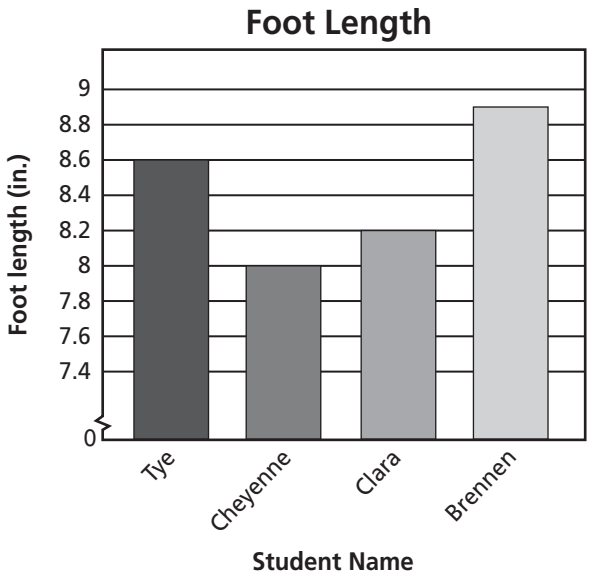
How many students attend North Middle School?

_____

Name _____ Date _____

Remembering

Perry measured the foot length of four friends for a science fair experiment. Then, he made a bar graph to display his results.



1. How much longer is Brennen's foot than Clara's foot?

_____

2. What is the difference between the longest foot and the shortest foot?

_____

Solve.

3. $\frac{7}{8} \cdot \frac{4}{9}$

4. $11 - \frac{3}{4}$

5. $\frac{4}{5} + \frac{7}{10}$

6. $\frac{9}{12} - \frac{5}{12}$

7. $\frac{7}{15} + \frac{2}{3}$

8. $\frac{5}{6} \cdot \frac{9}{11}$

Complete each fraction box.

$\frac{7}{12}$ and $\frac{5}{6}$	
>	
+	
−	
·	

$\frac{4}{5}$ and $\frac{2}{3}$	
>	
+	
−	
·	

9. Stretch Your Thinking Write two multiplication equations using fractions and mixed numbers. Write one equation that will have a product greater than the first factor. Then write another equation that will have a product less than the first factor.

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