

Name: _____

Unit 5 study guide

Find a common denominator for the pairs of fractions and rewrite the fractions as equivalent fractions with a common denominator.

$$\frac{2}{6} \text{ and } \frac{3}{8} \quad \underline{\hspace{2cm}}$$

$$\frac{1}{4} \text{ and } \frac{4}{5} \quad \underline{\hspace{2cm}}$$

Solve

$$\frac{2}{7} + \frac{1}{3} \quad \underline{\hspace{2cm}}$$

$$\frac{1}{2} - \frac{3}{9} \quad \underline{\hspace{2cm}}$$

Estimate. Then solve.

$$6\frac{2}{3} + 4\frac{3}{4} = \underline{\hspace{2cm}}$$

Estimate: _____

$$5\frac{4}{5} - 3\frac{1}{3} = \underline{\hspace{2cm}}$$

Estimate: _____

TJ biked $2\frac{3}{5}$ on Saturday and $3\frac{4}{6}$ on Sunday. How many miles did he bike on Saturday and Sunday all together?

Number Model: _____

Estimate: _____

TJ biked _____ total miles

What is $\frac{1}{6}$ of 30? _____

What is $\frac{5}{6}$ of 30? _____

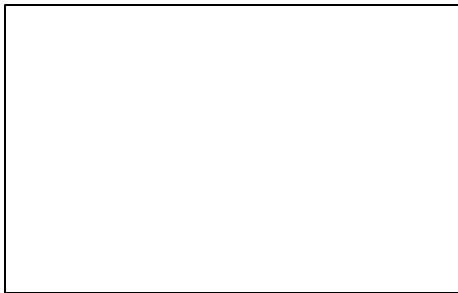
Explain how you can use your answer for the first question to help you solve the second questions.

Look at the problem $25 \times \frac{3}{5}$

Will the product be greater than 25? _____

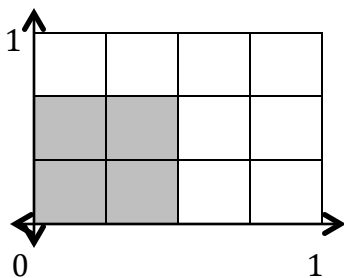
How do you know? _____

Draw lines and shade the rectangle to show what you did to solve $\frac{1}{3}$ of $\frac{3}{4}$.



$\frac{1}{3}$ of $\frac{3}{4}$ is _____

Write a number story that matches the expression $\frac{7}{8} \times 24$. Then solve the number story.



What are the dimensions of the shaded rectangle in the area model?

_____ unit by _____ unit

What is the area of the shaded rectangle?

_____ square unit

Write a multiplication number sentence that matches the area model.

Solve

$$\frac{4}{5} \times \frac{2}{7} = \underline{\hspace{2cm}}$$

$$\frac{3}{4} \times \frac{4}{6} = \underline{\hspace{2cm}}$$



For the problem below, write a division number model. Then draw a picture to solve the problem. Write a multiplication number sentence to show how you checked your answer.

Mrs. Jones has 6 pounds of play-doh for her art class. If she wants to divide it up into $\frac{3}{4}$ pound pieces, how many pieces will she have?

Division number model: _____

Mrs. Jones will have _____ pieces

Check: _____