

Fourth Grade Math

Activity 3 knoxschools.org/kcsathome

This packet includes four sections that cover some of the major content of 4th Grade Math. Each section includes notes and practice for each topic. For additional support, visit KCS TV on YouTube for instructional videos that accompany each section.

	Торіс			
	I. Classify Two- Dimensional Figures	II. Multiply and Divide Whole Numbers	III. Equivalent Fractions and Comparing Fractions	IV. Relate Decimals and Fractions and Compare Decimals
Activity 1	Compare Quadrilaterals	Multiplying Whole Numbers	Equivalent Fractions	Fractions and Decimals
Activity 2	Sorting Shapes based on parallel and perpendicular sides	Dividing Whole Numbers	Compare Fractions- Common Denominators	Compare Fractions
Activity 3	Sorting Shapes based on angles		Compare Fractions- Using a Benchmark	Compare Tenths and Hundredths
Activity 4	Sorting Triangles based on angles and lengths of sides			

The following content is included in this packet:



4th Grade Math– Activity Section III

Standards: 4.NF.A.1 and 4.NF.A.2

Study the example showing one way to model equivalent fractions. Then solve problems 1–8.

Example

A model can show equivalent fractions.

The model has 5 equal parts. It shows $\frac{3}{5}$.

Divide the model into 10 equal parts to show an equivalent fraction.

The model shows $\frac{6}{10}$.

 $\frac{3}{5} = \frac{6}{10}$



1 Divide the model below to show $\frac{1}{2} = \frac{5}{10}$.

2 Draw a model to show ¹/₆. Then divide the model into twice as many parts to find an equivalent fraction.

 $\frac{1}{6} =$ _____

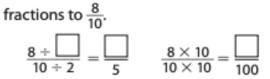
3 Multiply the numerator and denominator of $\frac{1}{6}$ by 2.

$$\frac{1 \times 2}{6 \times 2} =$$

Why does it make sense that the fraction you wrote in problems 2 and 3 is the same?

Solve.

5 Fill in the missing numbers to find two equivalent



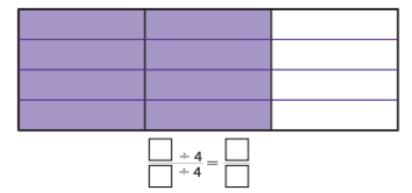
6 Look at problem 5. Explain how $\frac{4}{5} = \frac{80}{100}$.

7 Shade the model below to show $\frac{1}{5}$. Then show

10 equal parts and write an equivalent fraction.



8 Fill in the missing numbers to find a fraction that is equivalent to the fraction modeled below.



Find a Common Numerator or Denominator

Study the example problem showing how to compare fractions by finding a common denominator. Then solve problems 1–7.

Example

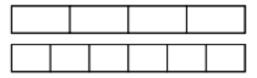
A length of ribbon is $\frac{3}{4}$ foot. Another length of ribbon is $\frac{5}{6}$ foot. Compare the lengths using a symbol.

 $\frac{3 \times 3}{4 \times 3} = \frac{9}{12} \qquad \frac{5 \times 2}{6 \times 2} = \frac{10}{12}$ Find a common denominator. Write the equivalent fractions. $\frac{3}{4} = \frac{9}{12}$ $\frac{5}{6} = \frac{10}{12}$

Compare the numerators.

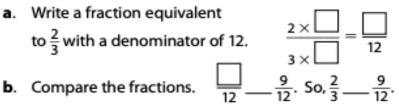
9 < 10 so $\frac{9}{12} < \frac{10}{12}$ $\frac{3}{4} < \frac{5}{2}$

1 Shade the models below to show $\frac{3}{4}$ and $\frac{5}{6}$. Fill in the blank to show the comparison. $\frac{3}{4} - \frac{5}{6}$

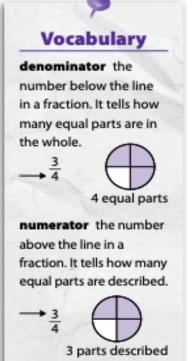


2 Divide each model in problem 1 into 12 equal parts to show an equivalent fraction. Write the equivalent fractions and symbol to show the comparison.

- 3 Compare $\frac{2}{3}$ and $\frac{9}{12}$ by finding a common denominator.
 - Write a fraction equivalent



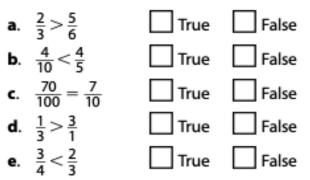
 $\frac{9}{12} < \frac{10}{12}$



Solve.

- 4 Compare $\frac{1}{5}$ and $\frac{2}{12}$ by finding a common numerator.
 - a. Write a fraction equivalent to $\frac{1}{5}$ with a numerator of 2. $\frac{1 \times \square}{5 \times \square} = \frac{2}{\square}$
 - **b**. Compare the fractions. $\frac{2}{12}$ $\frac{2}{12}$. So, $\frac{1}{5}$ $\frac{2}{12}$.
- Compare the fractions. Use the symbols <, >, and =.
 - **a.** $\frac{2}{5} \frac{8}{10}$ **b.** $\frac{5}{12} - \frac{1}{3}$ **c.** $\frac{3}{5} - \frac{60}{100}$ **d.** $\frac{9}{100} - \frac{9}{10}$

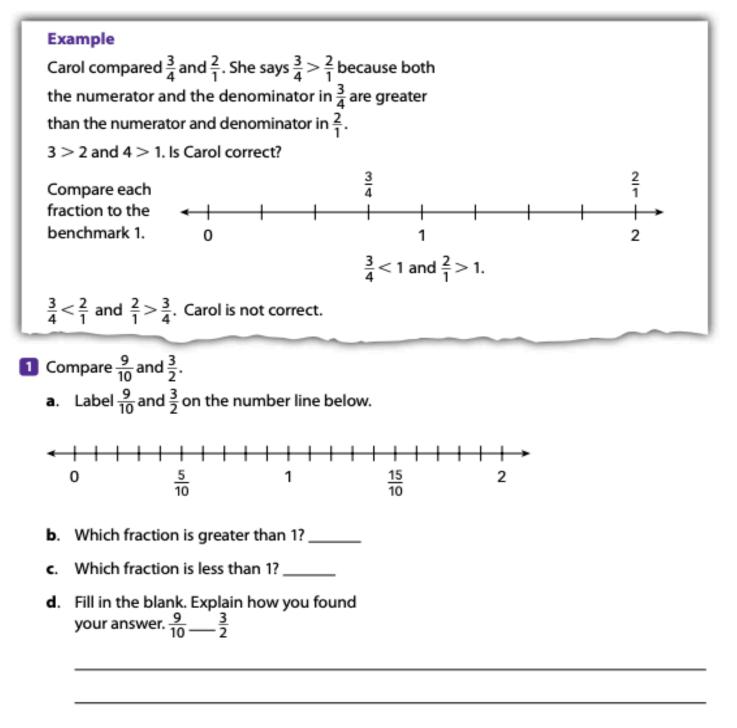
6 Tell whether each sentence is True or False.



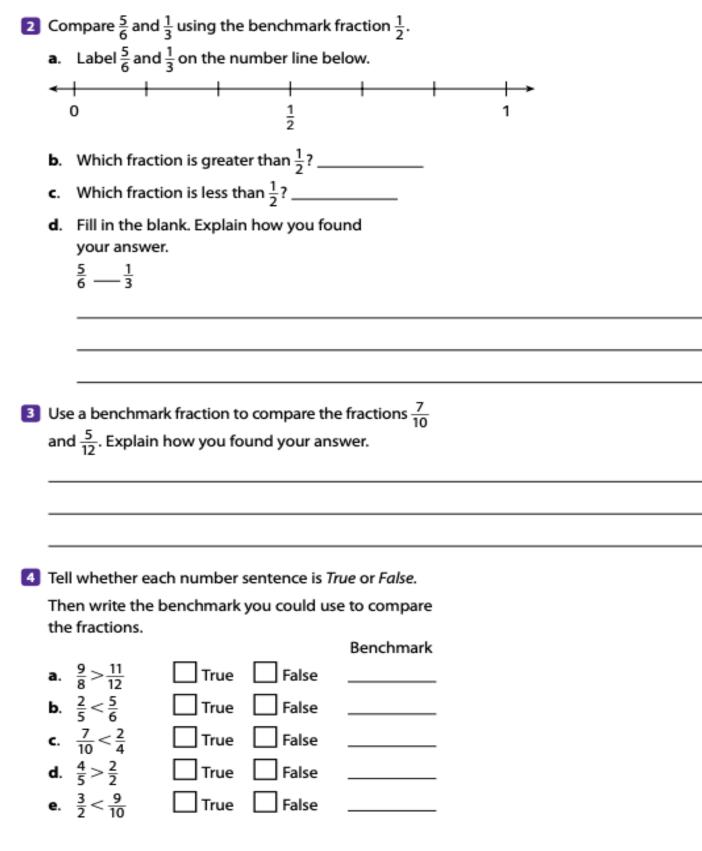
Can two fractions with the same numerator and different denominators be equal? Use words and numbers to explain.

Use a Benchmark to Compare Fractions

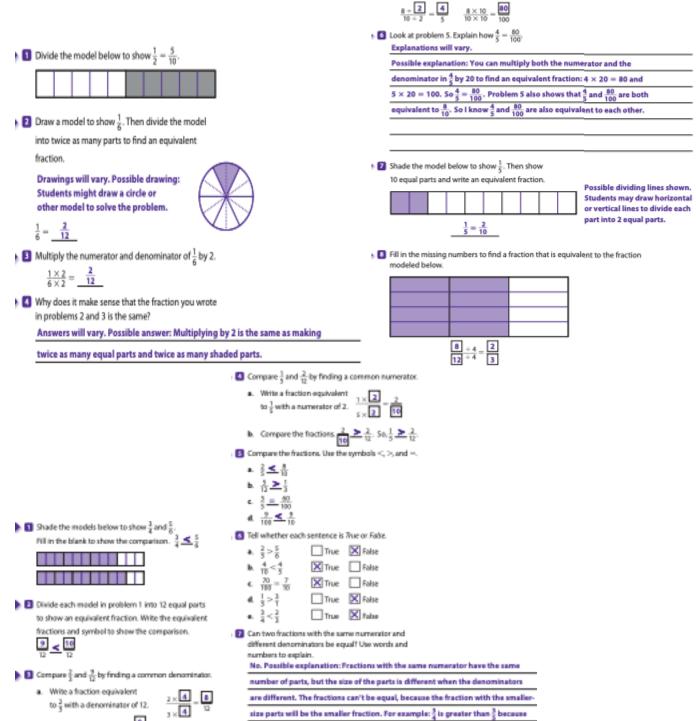
Study the example problem using 1 as a benchmark to compare fractions. Then solve problems 1–4.



Solve.



ACTIVITY SET III- ANSWER KEY



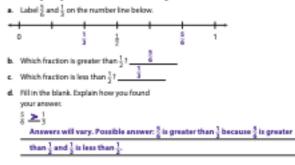
fourths are greater than fifths, $\frac{3}{4} > \frac{3}{6}$

5 Fill in the missing numbers to find two equivalent

fractions to $\frac{8}{10}$.

b. Compare the fractions. $\begin{bmatrix} 0 & 0 \\ 1 & 0 \end{bmatrix}$ So, $\frac{2}{3} \leq \frac{9}{10}$

S Compare ²/₂ and ¹/₂ using the benchmark fraction ¹/₂.



 Dise a benchmark fraction to compare the fractions ⁷/₁₀ and ⁵/₁₂. Explain how you found your answer. Answers will vary. Possible answer: ¹/₂ is equal to ⁵/₁₀ so ⁷/₁₀ is greater than ¹/₂.

 $\frac{1}{2}$ is also equal to $\frac{6}{12}$ so $\frac{5}{12}$ is less than $\frac{1}{2} \cdot \frac{7}{10}$ is greater than $\frac{5}{12}$.

Compare ⁹/₁₀ and ³/₂.
 a. Label ⁹/₁₀ and ³/₂ on the number line below.
 0 ⁵/₁₂ ⁹/₁₀ 1 ¹⁵/₁₀ 2
 b. Which fraction is greater than 1? ³/₂
 c. Which fraction is less than 1? ¹⁰/₁₀
 d. Fill in the blank, Explain how you found

- your assess $\frac{p}{10} \leq \frac{2}{2}$ Answers will vary. Possible answer: $\frac{9}{10}$ is less than $\frac{3}{2}$ because $\frac{9}{10}$ is less than 1 and $\frac{3}{2}$ is greater than 1.
- 1 Tell whether each number sentence is True or False. Then write the benchmark you could use to compare
 - Then write the benchmark you could use to compa the fractions.

		Benchmark
a. ≩>:¦}	🛛 True 🗌 I	false 1
b. §<§	🗙 True 🗌 I	false 1
c 7 < 2	The 🛛	false 1
a. ∦>§	The 🛛	false 1
 \$<2 	Thue 🛛	False 1