NS4-45 Naming Fractions



1. Write the fraction shown by the shaded part of the image.













2. Shade the fraction.













3. Write the words that describe each square in the figure.



Number Sense 4-45

4. Write the fraction shown by the shaded part of the figure.



6. Find a fraction in the top row that is equal to a fraction in the bottom row. Fill in the blank with the letter from the fraction in the top row.









7. Shade the fraction twice. Put a \checkmark under the figure with the larger amount of shading.



Number Sense 4-45

NS4-46 Comparing Fractions to Benchmarks

1. Shade half of the figure. Write two fractions to describe the shaded part.



2. Circle the fractions that are more than half.





3. How many shaded parts does the fraction show? How many parts are not shaded?



Number Sense 4-46



7. Write the shaded fraction.



8. A fraction is equal to 1 if its numerator and denominator are ____



9. Write if the fraction is "equal to" or "greater than" 0.



Number Sense 4-46

NS4-47 Equivalent Fractions

1. How many times as many parts are there?



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3. The picture shows two equivalent fractions. Fill in the blanks.



4. Write an equivalent fraction for the picture. Then write how many times as much the new numerator and denominator are.



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5. Draw lines to cut the pies into more equal pieces. Then fill in the numerators of the equivalent fractions.



6. Draw lines to cut the pie into more pieces. Then fill in the missing numbers.



7. Use multiplication to find the equivalent fraction.



Number Sense 4-47

NS4-48 Comparing and Ordering Fractions

1. a) Write the numerators of the shaded fractions.



iii) Shaded fraction _____.



- 2. Circle the greater fraction.
 - a) $\frac{2}{5}$ or $\frac{4}{5}$ b) $\frac{3}{4}$ or $\frac{1}{4}$ c) $\frac{4}{10}$ or $\frac{9}{10}$ d) $\frac{3}{3}$ or $\frac{1}{3}$

3. Write any number in the blank that makes the relationship correct.

a)
$$\frac{3}{7} > \frac{1}{7}$$
 b) $\frac{1}{29} < \frac{14}{29}$ c) $\frac{61}{385} > \frac{1}{385}$ BONUS $\blacktriangleright \frac{2}{1000} < \frac{2}{1000}$

4. Two fractions have the same denominator but different numerators. How can you tell which fraction is greater?



5. Use the number line to order the fractions from least to greatest. Draw an X to mark the position of each fraction. Ж ŀ -1 6 10 3 10 2 10 7 10 0 4 5 8 9 10 1 10 10 10 10 10 10 10 $\frac{6}{10} \ \frac{1}{10} \ \frac{8}{10} \ \frac{4}{10} \ \frac{2}{10} \ \frac{9}{10} \ \frac{5}{10}$ 6. Order the fractions from least to greatest by considering the numerators and denominators. a) $\frac{3}{5} \frac{0}{5} \frac{2}{5} \frac{5}{5} \frac{1}{5}$ b) $\frac{6}{10} \frac{1}{10} \frac{4}{10} \frac{2}{10} \frac{9}{10}$ 7. a) What fraction of a litre is in the container? 1 litre 1 litre 1 litre b) Which fraction in part a) is ... i) the smallest? ii) the biggest? iii) in the middle? c) Write "smaller" or "bigger." As the denominator gets bigger, each part gets Comparing fractions when ... the numerator stays the same the denominator changes and 1 5 smaller parts same number of shaded parts bigger parts $\frac{1}{3}$ So $\frac{1}{5} < \frac{1}{3}$ because the parts are smaller in the shape with more parts.



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8. Circle the greater fraction.

a)
$$\frac{2}{5}$$
 or $\frac{2}{3}$ b) $\frac{3}{4}$ or $\frac{3}{5}$ c) $\frac{4}{5}$ or $\frac{4}{10}$ d) $\frac{3}{4}$ or $\frac{3}{3}$

9. Write any number in the blank that makes the relationship correct.

a)
$$\frac{3}{5} > \frac{9}{8}$$
 b) $\frac{11}{15} > \frac{14}{29}$ c) $\frac{9}{16} > \frac{9}{-16}$ d) $\frac{20}{-16} < \frac{20}{27}$

- **10.** Two fractions have the same numerator but different denominators. How can you tell which fraction is greater?
- **11.** a) Order the fractions from least to greatest by matching each fraction to the strip it represents and then shading it.



b) Order the fractions from least to greatest by considering the numerators and denominators.



c) Are your answers for parts a) and b) the same? Explain.

Number Sense 4-48

so everyone in the class can have a piece. Ray says, "That's not fair at all?" and Lynn says, "That's perfectly fair!" a) Why does Ray think it's unfair? b) Why does Lynn think it's fair? a) Write the fractions in the correct category. $\frac{3}{4}$ $\frac{1}{3}$ $\frac{2}{5}$ $\frac{4}{6}$ $\frac{4}{9}$ $\frac{3}{7}$ $\frac{7}{8}$ $\frac{6}{10}$ $\frac{5}{9}$ $\frac{2}{3}$ $\frac{1}{6}$ $\frac{3}{10}$ $\boxed{0 \text{ to } \frac{1}{2}}$ $\frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}}$ $\frac{1}{2} \text{ to } 1$ b) Use the results from part a) to write "<" or ">" in the box between the pair of fractions. i) $\frac{6}{10}$ $\boxed{\frac{3}{7}}$ ii) $\frac{1}{3}$ $\boxed{\frac{3}{4}}$ iii) $\frac{4}{6}$ $\boxed{\frac{4}{9}}$ iv) $\frac{2}{5}$ $\boxed{\frac{1}{5}}$	Ray, Hanna, and None of the cake	Lynn each brought 1 cake to so s are the same size. The teach	chool for their year-end of er cut each cake into 8 e	class party. equal pieces,
a) Why does Ray think it's unfair? b) Why does Lynn think it's fair? a) Write the fractions in the correct category. $ \frac{3}{4} \qquad \frac{1}{3} \qquad \frac{2}{5} \qquad \frac{4}{6} \\ \frac{4}{9} \qquad \frac{3}{7} \qquad \frac{1}{8} \qquad \frac{6}{10} \\ \frac{5}{9} \qquad \frac{2}{3} \qquad \frac{1}{6} \qquad \frac{3}{10} \\ \hline $	so everyone in th says, "That's perl	e class can have a piece. Ray ectly fair!"	says, That's not fair at a	all! and Lynn
b) Why does Lynn think it's fair? a) Write the fractions in the correct category. $ \begin{array}{c}3 \\ 4 \\ 9 \\ 1 \\ 3 \\ 4 \\ 9 \\ 1 \\ 1 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	a) Why does Ra	y think it's unfair?		
b) Why does Lynn think it's fair? a) Write the fractions in the correct category. $ \begin{array}{c}3 \\ 4 \\ 9 \\ 1 \\ 3 \\ 4 \\ 9 \\ 1 \\ 5 \\ 9 \\ 2 \\ 3 \\ 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$				
b) Why does Lynn think it's fair? a) Write the fractions in the correct category. $3 \sqrt[4]{4} \qquad \frac{1}{3} \qquad \frac{2}{5} \qquad \frac{4}{6} \\ \frac{4}{9} \qquad \frac{3}{7} \qquad \frac{1}{8} \qquad \frac{6}{10} \\ \frac{5}{9} \qquad \frac{2}{3} \qquad \frac{1}{6} \qquad \frac{3}{10} \\ \hline 0 \text{ to } \frac{1}{2} \qquad \frac{1}{2} \text{ to } 1 \\ \hline 0 \text{ to } \frac{1}{2} \qquad \frac{3}{4} \\ \hline b) \text{ Use the results from part a) to write "<" or ">" in the box between the pair of fractions. i) \frac{6}{10} \qquad \frac{3}{7} \qquad \text{ii}) \qquad \frac{1}{3} \qquad \frac{3}{4} \qquad \text{iii}) \qquad \frac{4}{6} \qquad \frac{4}{9} \qquad \text{iv}) \qquad \frac{2}{5} \qquad \frac{4}{5} \\ \hline $				
a) Write the fractions in the correct category. $ \begin{array}{c}3 \\ 4 \\ 7 \\ 4 \\ 9 \\ 7 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 10 \\ \hline \end{array} $ $ \begin{array}{c}5 \\ 5 \\ 9 \\ 2 \\ 3 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 10 \\ \hline \end{array} $ $ \begin{array}{c}5 \\ 5 \\ 9 \\ 2 \\ 3 \\ 7 \\ 8 \\ 7 \\ 8 \\ 7 \\ 10 \\ \hline \end{array} $ $ \begin{array}{c}6 \\ 10 \\ 5 \\ 9 \\ 2 \\ 3 \\ 7 \\ \hline \end{array} $ $ \begin{array}{c}1 \\ 0 \text{ to } \frac{1}{2} \\ \frac{1}{2} \text{ to } 1 \\ \frac{1}{2} \text{ to } 1 \\ \frac{3}{4} \\ \hline \end{array} $ b) Use the results from part a) to write "<" or ">" in the box between the pair of fractions. i) $\begin{array}{c}6 \\ 10 \\ \frac{3}{7} \\ 10 \\ \frac{3}{4} \\ \hline \end{array} $ ii) $\begin{array}{c}1 \\ \frac{3}{4} \\ \frac{3}{4} \\ \hline \end{array} $ iii) $\begin{array}{c}4 \\ \frac{6}{6} \\ \frac{4}{9} \\ \frac{4}{9} \\ \hline \end{array} $ iv) $\begin{array}{c}2 \\ \frac{2}{5} \\ \frac{6}{5} \\ \frac{6}{$	b) Why does Lyi	n think it's fair?		
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$\frac{3}{4} \qquad \frac{1}{3} \qquad \frac{2}{5} \qquad \frac{4}{6}$ $\frac{4}{9} \qquad \frac{3}{7} \qquad \frac{3}{7} \qquad \frac{7}{8} \qquad \frac{6}{10}$ $\frac{5}{9} \qquad \frac{2}{3} \qquad \frac{1}{6} \qquad \frac{3}{10}$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{6} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{3}{4}$ b) Use the results from part a) to write "<" or ">" in the box between the pair of fractions. $i) \frac{6}{10} \qquad \frac{3}{7} \qquad ii) \frac{1}{3} \qquad \frac{3}{4} \qquad iii) \frac{4}{6} \qquad \frac{4}{9} \qquad iv) \frac{2}{5} \qquad \frac{4}{6}$	a) Write the frac	tions in the correct category.		
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$\frac{1}{9} \qquad \frac{1}{7} \qquad \frac{1}{8} \qquad \frac{1}{10}$ $\frac{5}{9} \qquad \frac{2}{3} \qquad \frac{1}{6} \qquad \frac{3}{10}$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{6} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{3}{4}$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{3}{4}$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{3}{4}$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{3}{4} \qquad \frac{3}{4}$ $\boxed{0 \text{ to } \frac{1}{2} \text{ to } 1}$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{3}{4} \qquad \frac{1}{4} \qquad \frac{1}{4} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2} \text{ to } 1}$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $\boxed{0 \text{ to } \frac{1}{2}} \qquad \frac{1}{2} \text{ to } 1$ $0 $	/4 4	3	7	6
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b) Use the results from part a) to write "<" or ">" in the box between the pair of fractions. i) $\frac{6}{10}$ $\boxed{37}$ ii) $\frac{1}{3}$ $\boxed{34}$ iii) $\frac{4}{6}$ $\boxed{49}$ iv) $\frac{2}{5}$ $\boxed{9}$			$\left \frac{\sigma}{\Lambda}\right $	
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i) $\frac{0}{10}$ $\boxed{37}$ ii) $\frac{1}{3}$ $\boxed{34}$ iii) $\frac{4}{6}$ $\boxed{49}$ iv) $\frac{2}{5}$ $\boxed{37}$			" in the bay between th	nois of functions
	b) Use the resul	ts from part a) to write "<" or ">	in the box between the	e pair of fractions.
	b) Use the resul	ts from part a) to write "<" or "> $\frac{3}{7}$ ii) $\frac{1}{3}$ $\frac{3}{4}$	iii) $\frac{4}{6}$ $\frac{4}{9}$	e pair of fractions. iv) $\frac{2}{5} \prod \frac{5}{9}$

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NS4-49 Equal Parts of a Set

F	Fractions can name parts of a set: $\frac{1}{5}$ of the figures are squares, $\frac{1}{5}$ are circles, and $\frac{3}{5}$ are triangles.				
1.	1. Write fractions in the blanks.				
	$a) \bigcirc \bigtriangleup \bigcirc $				
	of the figures are circles. of the figures are shaded.				
	of the figures are shaded. of the figures are triangles.				
2.	$\square \bigtriangleup \bigtriangleup \bigcirc \bigcirc \square \square \bigtriangleup \square$				
	a) $\frac{5}{8}$ of the figures are				
	b) $\frac{3}{8}$ of the figures are				
3.	A soccer team wins 5 games and loses 3 games.				
	a) How many games did the team play?				
	b) What fraction of the games did the team win?				
4.	A box contains 4 blue markers, 3 black markers, and 3 red markers. What fraction of the markers are not blue? You can make a picture to help.				
5.	Write four fraction statements for the picture:				
6 .	Draw a picture that fits all the clues.				
	a) There are 5 circles and squares. b) There are 5 triangles and squares.				
	$\frac{3}{5}$ of the figures are squares. $\frac{3}{5}$ of the figures are shaded.				
	$\frac{2}{r}$ of the figures are shaded. $\frac{2}{r}$ of the figures are triangles.				
	ס Two circles are shaded. One square is shaded.				
	·				