

NS7-23 Comparing Fractions — Introduction

1. Shade the given amount in each pie. Then circle the greater fraction in each pair.

a) $\frac{5}{8}$ $\frac{7}{8}$ b) $\frac{6}{9}$ $\frac{4}{9}$ c) $\frac{8}{10}$ $\frac{7}{10}$

2. Two fractions have the same denominators (bottoms) but different numerators (tops). How can you tell which fraction is greater?

3. Shade the given amount in each pie. Then circle the greater fraction in each pair.

a) $\frac{1}{3}$ $\frac{1}{4}$ b) $\frac{1}{10}$ $\frac{1}{2}$ c) $\frac{3}{5}$ $\frac{3}{10}$

4. Two fractions have the same numerators (tops) but different denominators (bottoms). How can you tell which fraction is greater?

5. Write the fractions in order from least to greatest.

a) $\frac{1}{9}$ $\frac{1}{4}$ $\frac{1}{17}$ b) $\frac{2}{11}$ $\frac{2}{5}$ $\frac{2}{7}$ $\frac{2}{16}$ c) $\frac{4}{5}$ $\frac{1}{5}$ $\frac{3}{5}$

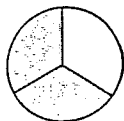
d) $\frac{9}{10}$ $\frac{2}{10}$ $\frac{1}{10}$ $\frac{5}{10}$ e) $\frac{5}{8}$ $\frac{7}{8}$ $\frac{5}{9}$ f) $\frac{3}{7}$ $\frac{2}{7}$ $\frac{3}{5}$

BONUS ▶ $\frac{15}{19}$ $\frac{9}{23}$ $\frac{11}{21}$ $\frac{11}{19}$ $\frac{6}{23}$ $\frac{9}{22}$ $\frac{15}{17}$ $\frac{9}{21}$

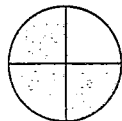
6. Which fraction is greater? How do you know?

a) $\frac{7}{5}$ or $\frac{9}{5}$ b) $4\frac{1}{4}$ or $4\frac{3}{4}$

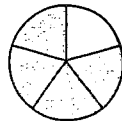
7. a) How much more do you need to shade to make a whole?



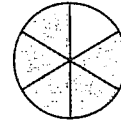
$$\frac{2}{3} + \underline{\hspace{2cm}} = 1$$



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



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



$$\frac{5}{6} + \underline{\hspace{2cm}} = 1$$

b) Which fraction is greater, $\frac{5}{6}$ or $\frac{6}{7}$? How do you know?

8. How much more do you need to make one whole?

$$\frac{11}{13} \quad \boxed{\frac{2}{13}}$$

$$\frac{14}{15} \quad \boxed{\hspace{1cm}}$$

$$\frac{7}{9} \quad \boxed{\hspace{1cm}}$$

$$\frac{19}{20} \quad \boxed{\hspace{1cm}}$$

$$\frac{5}{7} \quad \boxed{\hspace{1cm}}$$

$$\frac{12}{13} \quad \boxed{\hspace{1cm}}$$

9. a) Complete the chart.

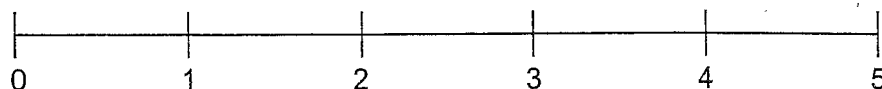
Improper Fraction				$\frac{11}{5}$		$\frac{13}{3}$
Mixed Number	$6\frac{1}{2}$	$2\frac{3}{4}$	$3\frac{1}{4}$		$1\frac{5}{6}$	

b) Order the improper fractions from least to greatest. _____

c) Order the mixed numbers from least to greatest. _____

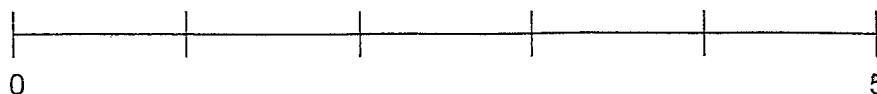
d) Explain why the lists in b) and c) should agree. If they do not, find your mistake.

10. Place these numbers on the number line. $\frac{1}{3}$ $\frac{4}{3}$ $2\frac{1}{3}$ $3\frac{1}{3}$ $\frac{13}{3}$



11. Is $2\frac{3}{4}$ closer to 2 or to 3? How do you know? _____

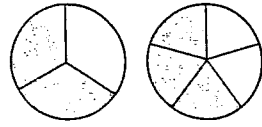
12. Place these numbers on the number line. $2\frac{3}{4}$ $\frac{11}{5}$ $\frac{6}{7}$ $\frac{9}{2}$ $\frac{11}{3}$ $\frac{9}{3}$

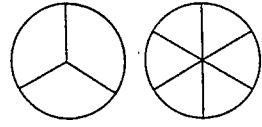


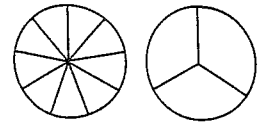
BONUS ▶ Write the fractions from Question 8 from greatest to least. Explain how you compared the fractions.

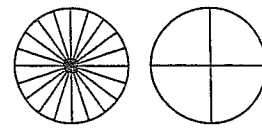
NS7-24 Equivalent Fractions

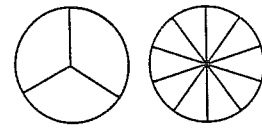
1. Compare the fractions by shading to see which is more. Write $>$ (more than), $<$ (less than), or $=$ (equal).

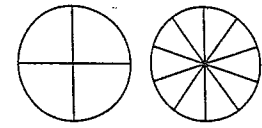
a)  $\frac{2}{3}$ $\frac{3}{5}$

b)  $\frac{2}{3}$ $\frac{4}{6}$

c)  $\frac{5}{9}$ $\frac{2}{3}$

d)  $\frac{15}{20}$ $\frac{3}{4}$

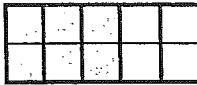
e)  $\frac{2}{3}$ $\frac{7}{10}$

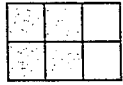
f)  $\frac{3}{4}$ $\frac{6}{10}$


Two fractions are said to be equivalent if they represent the same amount.

2. List two pairs of equivalent fractions from Question 1. $\frac{\quad}{\quad} = \frac{\quad}{\quad}$ and $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

3. Group the squares into larger blocks to make an equivalent fraction.

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

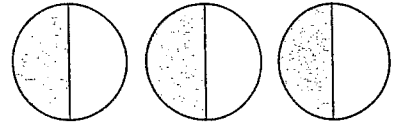
b)  $\frac{4}{6} = \frac{2}{3}$

c)  $\frac{10}{12} = \frac{5}{6}$

4. Write three equivalent fractions for the amount shaded here.

_____ 

5. a) Draw lines to cut the pies into...

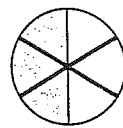


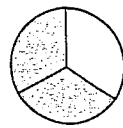
4 equal pieces 6 equal pieces 8 equal pieces

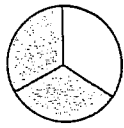
b) Fill in the numerators of the equivalent fractions.

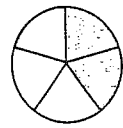
$$\frac{1}{2} = \frac{\quad}{4} = \frac{\quad}{6} = \frac{\quad}{8}$$

6. Make an equivalent fraction by cutting each shaded piece into the same number of equal parts. Then cut the remaining pieces into that number of equal parts.

a) $\frac{1}{2} = \frac{3}{6}$ 

b) $\frac{2}{3} = \frac{4}{6}$ 

c) $\frac{2}{3} = \frac{6}{9}$ 

d) $\frac{2}{5} = \frac{8}{20}$ 

Courtesy © 2009 JUMP MATH. NOT TO BE COPIED
COPYRIGHT © 2009 JUMP MATH. NOT TO BE COPIED