Warm Up (Review of Grade 7) Jan 15, 2019

1) Write each fraction as a decimal (without calculator) 1000



- 2) Write the following decimals as a fraction

a)
$$\frac{56 \div 2}{1000 \div 2} = \frac{28 \div 2}{500 \div} = \frac{14 \div 2}{250 \div 2} = \frac{7}{125}$$



Comparing and Ordering Fractions

There are several strategies you can use to compare fractions.

- 1. Use common denominators Ex) $\frac{1}{2}$ $\frac{3}{2}$ With common denominators, the fraction with the larger numerator is greater
- 2. Use common numerators $Ex)\frac{3}{4}$ $\frac{3}{7}$

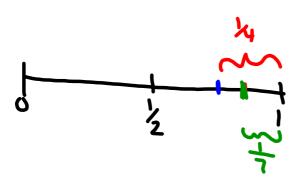
When fractions have the same numerators, the fraction with the smaller denominator is greater because it has bigger pieces.

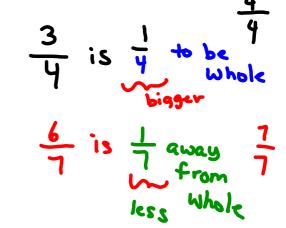
3. Use benchmarks $(0, \frac{1}{2}, 1)$



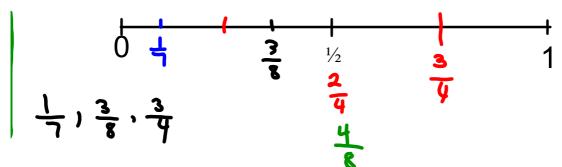
4. Use one in the difference of the numerator and denominator

- With one in the difference of numerator and denominator, the bigger the number the larger the fraction.
- 5. Use a combination of the above









3 is closer to 1 because the numerator and denominator are close in value 4

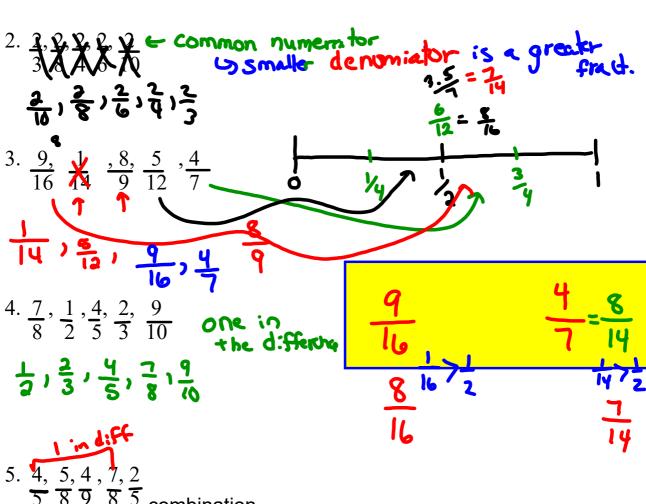
1 is closer to 0 because the numerator is much less than the denominator 7

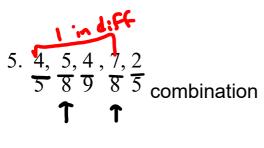
3 is closer to 1/2 because the numerator is about half the denominator but less than 1/2

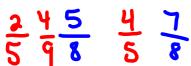
For each example order the fractions from least to greatest.

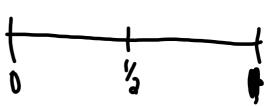
Use more than one strategy









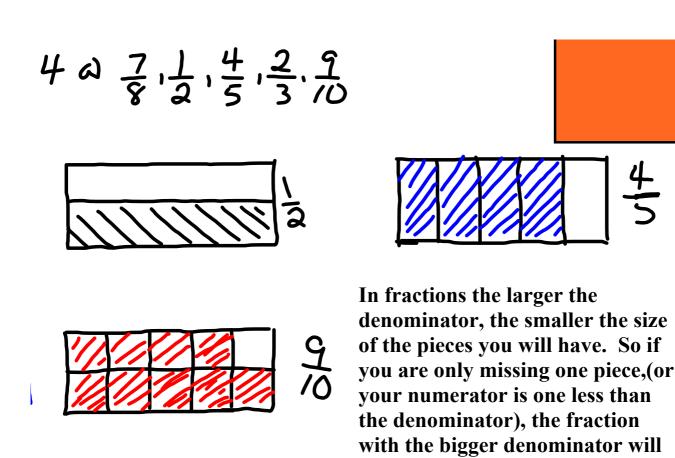


Comparing and Ordering Fractions

There are several strategies you can use to compare fractions.

- 1. Use common denominators
- 2. Use common numerators
- 3. Use benchmarks $(0, \frac{1}{2}, 1)$
- 4. Use fractions with a difference of 1 between the numerator and denominator
- 5. Use a combination of the above

Least	> (5)	reas	tes	t	
Examples;	1. 5/	5, 1/5	$\frac{1}{4}$	2/5	3/5
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7,3,4,3,0

be greater.

Which fraction in each pair is greater?

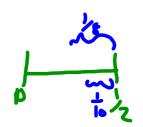
Give one or more reasons. Try not to use drawings or models. DO NOT USE common denominators. Use the strategies we just discussed.



j. 9/8 or 4/3

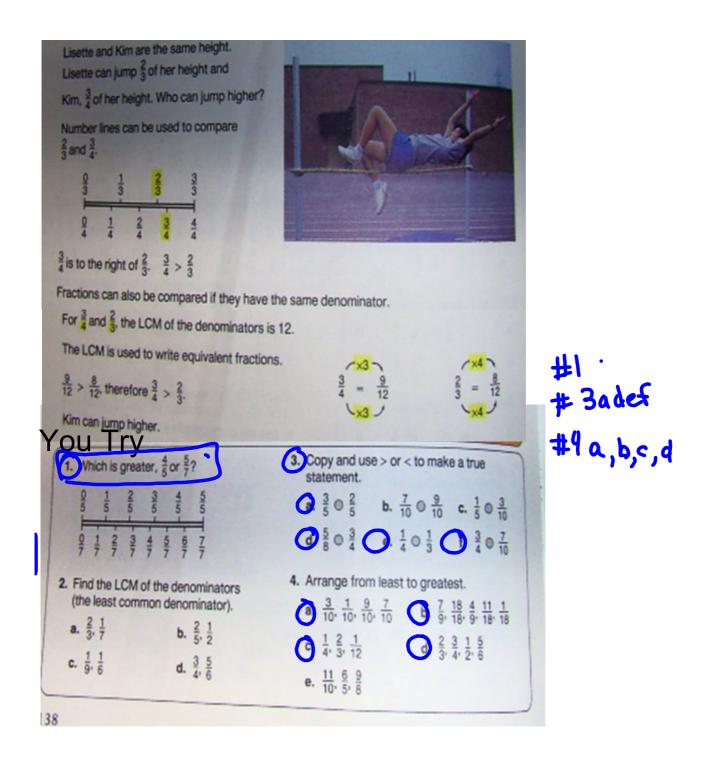
k. 4/6 or 7/12

1. 8/9 or 7/8

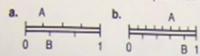


LCM 3an7 is 21

$$\frac{2^{x_1}}{3^{x_1}}$$
 $\frac{3^{x_3}}{3^{x_3}} = \frac{9}{21}$

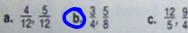


1. What fractions do A and B represent?



- 2. Which is the lesser fraction in each part of exercise 1?
- 3. Which is the greater fraction?

a.
$$\frac{4}{12}$$
, $\frac{5}{12}$



(d.)
$$\frac{7}{8}$$
, $\frac{3}{4}$



4. Which figure has the greater fraction of its area shaded?







- 5. Renata and Bonnie have the same mass. Renata can lift $\frac{4}{5}$ of her mass. Ronnie can lift 3 of her mass. Who can lift the greater mass?
- 6. Find the LCM of the denominators.

a.
$$\frac{1}{2}$$
, $\frac{4}{5}$, $\frac{9}{10}$ **b.** $\frac{7}{8}$, $\frac{1}{3}$, $\frac{5}{4}$ **c.** $\frac{7}{6}$, $\frac{3}{8}$, $\frac{5}{3}$

7. Which is the least fraction?

8. Arrange from least to greatest. a. $\frac{3}{4}$, $\frac{8}{4}$, $\frac{5}{4}$ b. $\frac{1}{3}$, $\frac{2}{5}$, $\frac{1}{10}$

c. $\frac{8}{5}$, $\frac{9}{5}$, $\frac{5}{5}$ d. $\frac{9}{4}$, $\frac{7}{2}$, 2

- 9. Of the 30 students in Mrs. Paolucci's class, 3 were absent. On the same day, 2 students were absent from Mr. Clark's class of 25. Which class had the greater fraction of students present?
- 10. A construction company is building Phase II of a housing development. Of the 30 homes in Phase I, 11 have three bedrooms. In Phase II, 17 of the 45 homes have three bedrooms. Which phase has the greater fraction of three-bedroom homes?
- 11. While playing golf, Neil lost 3 of his 10 golf balls. Gabrielle lost 6 of her 15 golf balls. Which player lost the lesser fraction of golf balls?
- The Yost family spent \$72 of their \$264 weekly income on food. The Seymours spent \$93 of their \$330 weekly income on food.
 - a. How much did each family spend on food in a year?
 - b. Which family spent the greater fraction of their income on food?