

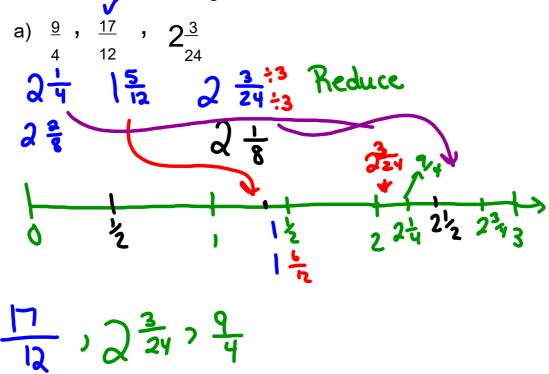
Warm up Grade 6

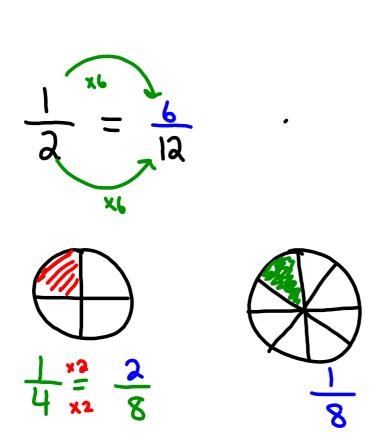
Chapter 5

Date: Jan 17

Lesson 3 Day 2

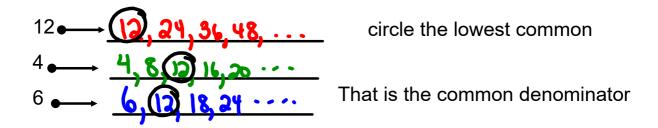
#1)Place the numbers in each set on a number line. Show work List the numbers from least to greatest





Let's look at making Common denominators to compare
-bottom number need to be the same
-So need to make equivalent fractions

List the multiples



Rewrite each fraction above as an equivalent fraction with the LCD

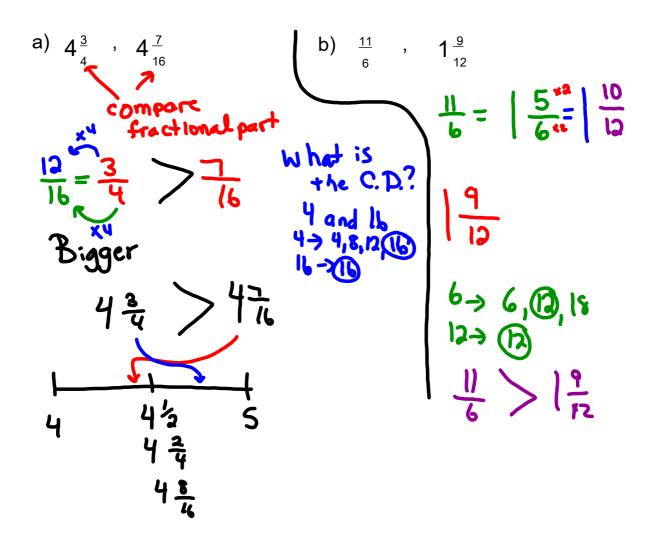
$$\frac{7}{12} = \frac{3}{4} = \frac{9}{12}$$

Then compare numerators when the denominators are the same. The larger the numerator the larger the factor

$$\frac{7}{12}$$
, $\frac{9}{12}$, $\frac{10}{12}$

For each pair of numbers below:

Which strategy did you use? Benchmarks or Common denominators Which number is the greatest?



Recall

When comparing fractions of different denominators...

-Take all fractions to the same form (all mixed or all improper)

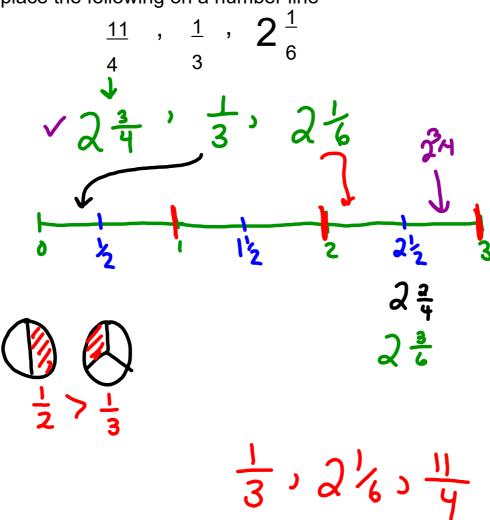
Then there is 3 methods to choose from

- 1) Benchmarks (0, $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2 and so on)
- 2) Use multiple number lines of same lengths
- 3) Equivalent Fractions (Find common denominators and compare numerators)

Recall

Strategy #1 - USING BENCHMARKS AND ESTIMATION

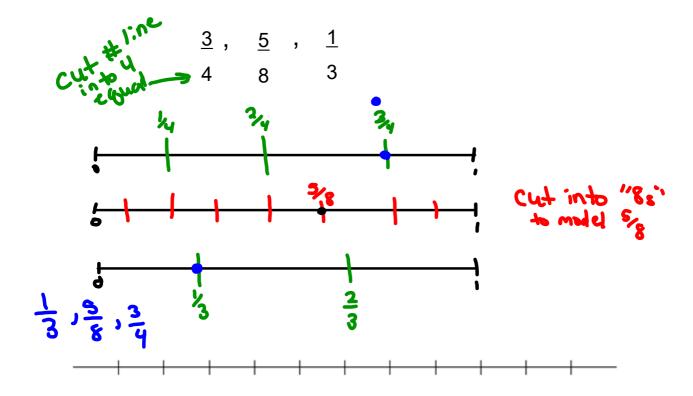
place the following on a number line

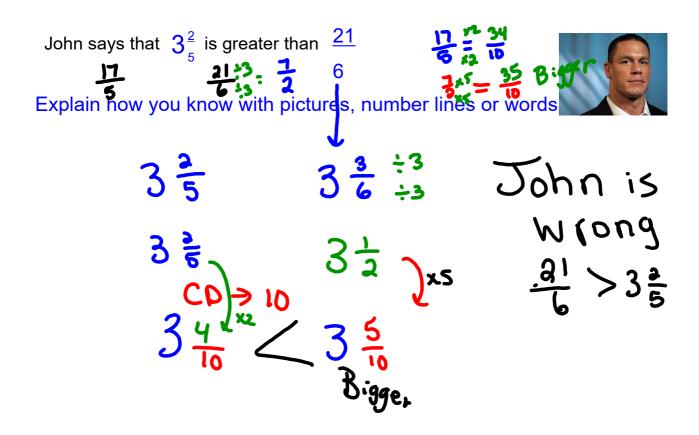


Recall

Strategy #2 – DRAWING INDIVIDUAL NUMBER LINES OF EQUAL LENGHTS

place the following on multiple a number line





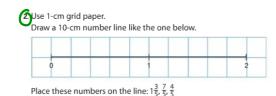
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Practice Page 173-175

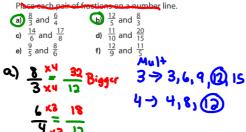
Your teacher will give you copies of number lines for questions 3, 6, and 7.

1. Use 1-cm grid paper.

Place these numbers on the line: $\frac{5}{6}$, $1\frac{1}{6}$, $\frac{9}{6}$



3. Find equivalent fractions so the fractions in each pair have the same denominator.



Use 1-cm grid paper.

Draw a number line with the benchmarks 0, 1, 2, and 3 as shown below.

0 1 2 3

Place these numbers on the number line: $\frac{1}{2}$, $\frac{23}{8}$, $1\frac{3}{4}$ **Hind: use C. D.**

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Your teacher will give you copies of number lines for questions 3, 6, and 7.

1. Use 1-cm grid paper.

Draw a 12-cm number line like the one below.



Place these numbers on the line: $\frac{5}{6}$, $1\frac{1}{6}$, $\frac{9}{6}$

2. Use 1-cm grid paper.

Draw a 10-cm number line like the one below.



Place these numbers on the line: $1\frac{3}{5}$, $\frac{7}{5}$, $\frac{4}{5}$

3. Find equivalent fractions so the fractions in each pair have the same denominator.

Place each pair of fractions on a number line.

- a) $\frac{8}{3}$ and $\frac{6}{4}$
- **b)** $\frac{12}{5}$ and $\frac{8}{3}$
- c) $\frac{14}{6}$ and $\frac{17}{8}$
- d) $\frac{11}{10}$ and $\frac{20}{15}$
- e) $\frac{9}{5}$ and $\frac{8}{6}$
- f) $\frac{12}{9}$ and $\frac{11}{5}$
- a) $\frac{8}{3} = \frac{32}{12}$
- b) $\frac{12}{5} = \frac{36}{15}$
- c) $\frac{14}{6} = \frac{56}{24}$ d) $\frac{11}{10} = \frac{33}{30}$

- $\frac{6}{4}$ = $\frac{18}{12}$
- $\frac{8}{3} = \frac{40}{15}$
- $\frac{17}{8} = \frac{51}{24}$
- 20 **=** 40 15 30

- e) $\frac{9}{5} = \frac{54}{30}$
- f) $\frac{12}{9} = \frac{60}{45}$
- $\frac{8}{6} = \frac{40}{30}$
- 11 **=** 99 5

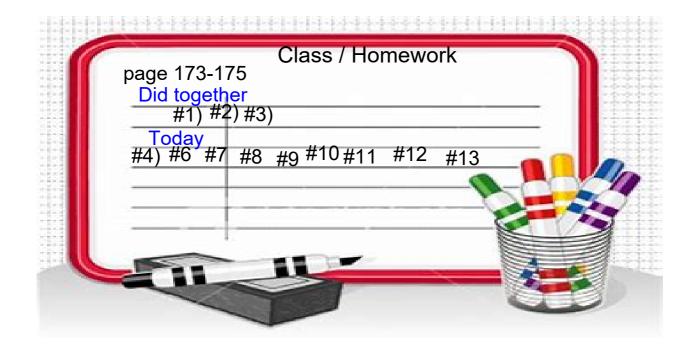
4. Use 1-cm grid paper.

Draw a number line with the benchmarks 0, 1, 2, and 3 as shown below.

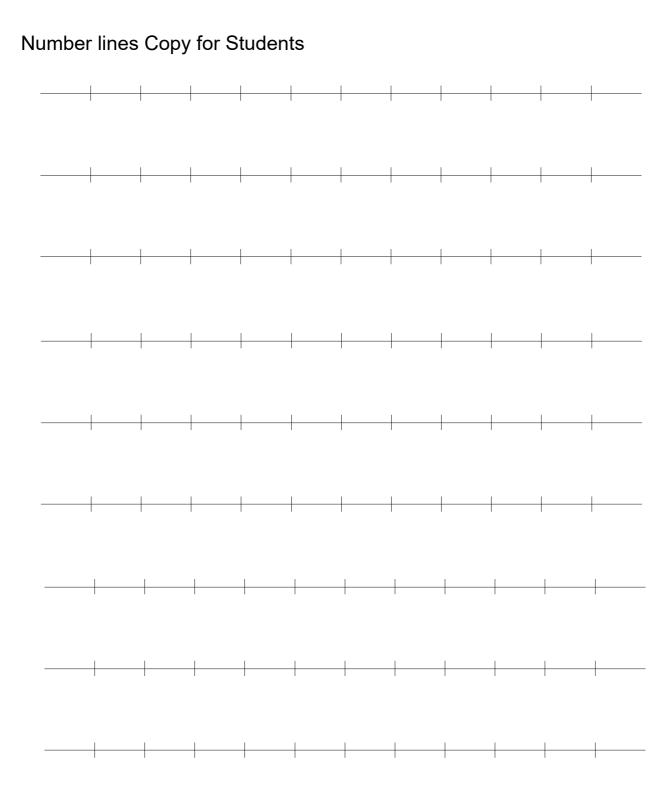


Place these numbers on the number line:





Number lines PDF



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Your teacher will give you copies of number lines for questions 3, 6, and 7.

1. Use 1-cm grid paper.

Draw a 12-cm number line like the one below.



Place these numbers on the line: $\frac{5}{6}$, $1\frac{1}{6}$, $\frac{9}{6}$

2. Use 1-cm grid paper.

Draw a 10-cm number line like the one below.

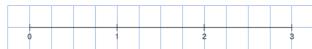


Place these numbers on the line: $1\frac{3}{5}$, $\frac{7}{5}$, $\frac{4}{5}$

- 3. Find equivalent fractions so the fractions in each pair have the same denominator. Place each pair of fractions on a number line.
 - a) $\frac{8}{3}$ and $\frac{6}{4}$
- c) $\frac{14}{6}$ and $\frac{17}{8}$
- b) $\frac{12}{5}$ and $\frac{8}{3}$ d) $\frac{11}{10}$ and $\frac{20}{15}$ f) $\frac{12}{9}$ and $\frac{11}{5}$

4. Use 1-cm grid paper.

Draw a number line with the benchmarks 0, 1, 2, and 3 as shown below.



Place these numbers on the number line:

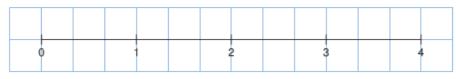
 $\frac{1}{2}$, $\frac{23}{8}$, $1\frac{3}{4}$

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5. Use 1-cm grid paper.

Draw a number line with the benchmarks 0, 1, 2, 3, and 4 as shown below.

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Place these numbers on the number line:

 $\frac{5}{2}$, $\frac{2}{3}$, $1\frac{5}{6}$

- 6. For each pair of numbers below:
 - · Place the two numbers on a number line. Which strategy did you use?
 - · Which of the two numbers is greater? How do you know?

- a) $\frac{5}{8}$; $\frac{7}{16}$ b) $\frac{3}{4}$; $\frac{9}{12}$ c) $2\frac{1}{2}$; $\frac{9}{2}$ d) $\frac{13}{10}$; $1\frac{1}{5}$ e) $\frac{29}{5}$; $6\frac{2}{10}$ f) $3\frac{5}{6}$; $3\frac{8}{12}$

7. Place the numbers in each set on a number line.

Show how you did it.

List the numbers from least to greatest.

- a) $\frac{5}{6}$, $\frac{15}{9}$, $1\frac{5}{12}$ b) $\frac{9}{4}$, $2\frac{2}{3}$, $\frac{11}{6}$ c) $\frac{9}{10}$, $\frac{7}{5}$, $\frac{11}{4}$ d) $\frac{10}{3}$, $2\frac{1}{4}$, $\frac{3}{2}$

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8. Hisa says that $\frac{17}{3}$ is greater than $5\frac{3}{4}$. Is she correct? Use pictures, numbers, and words to explain.

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- Adriel watched a 1³/₄-h movie on TV. Nadir watched 3 half-hour sitcoms. Who watched more TV? How do you know?
- 10. Justine played a board game for 3½ h. Marty played the same board game for 37/12 h. Who played longer? Sketch a number line to show how you know you are correct.



11. Ratu, Addie, and Penny cooked pancakes for their school's maple syrup festival in McCreary, Manitoba.

Ratu made 4½ dozen pancakes,
Addie made 6/6 dozen pancakes,
and Penny made 1/3 dozen pancakes.
Who made the most pancakes?
Who made the least?
Sketch a number line to show how you know.



12. Florence and her friends Rafael and Bruno race model cars. Florence's car completed $2\frac{1}{4}$ laps of a track in 1 min. Rafael's car completed $\frac{8}{3}$ laps of the track in 1 min. Bruno's car completed $\frac{11}{12}$ laps of the track in 1 min. Whose car was fastest? How do you know?



13. Use your ruler as a number line.
Visualize placing these fractions on your ruler: 4 3/2, 1/2, 1/10
Describe where you would place each fraction.
Which fraction is the greatest? The least?