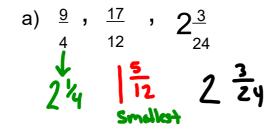


Warm up Grade 6
Date:____

Chapter 5
Lesson 3 Day 2

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



Compare tions

Smake common Dans

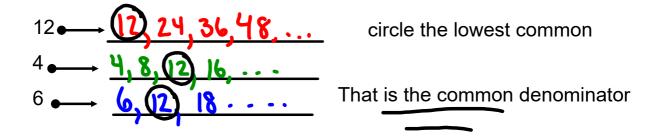
6x 1 - 6 to 3

6x 4 24 24

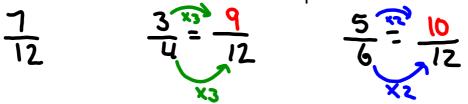
Let's look at making Common denominators to compare
-bottom number need to be the same
-So need to make equivalent fractions

$$\frac{7}{12}$$
 $\frac{3}{4}$ $\frac{5}{6}$ Need to find the Lowest common multiple of 12, 4, 6

List the multiples (count by)



Rewrite each fraction above as an equivalent fraction with the LCD



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

Recall

When comparing fractions of different denominators...

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

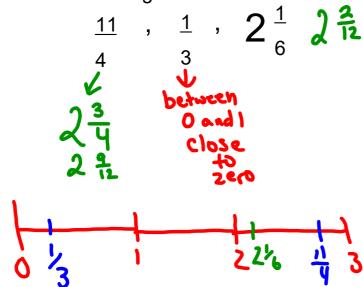
Then there is 3 methods to choose from

- 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



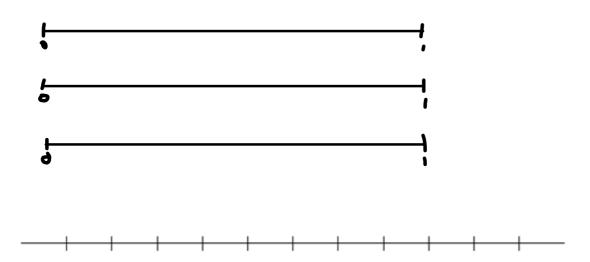
•

Recall

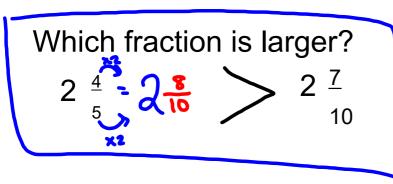
Strategy #2 – DRAWING INDIVIDUAL NUMBER LINES OF EQUAL LENGHTS

place the following on multiple a number line

$$\frac{3}{4}$$
, $\frac{5}{8}$, $\frac{1}{3}$



Common denominators
can help compare
(See notes from Tuesday)



When whole #s

are the same
just compare
fraction part.

5,6 15, 20

John says that $3\frac{2}{5}$ is greater than $\frac{21}{6}$



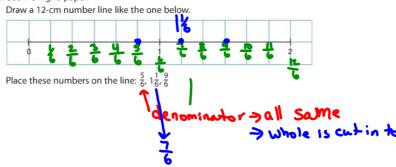
Explain how you know with pictures, number lines or words

John is wrong 21 is greater than 3 =.



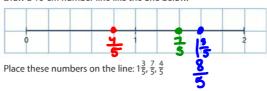
Your teacher will give you copies of number lines for questions 3, 6, and 7.

1. Use 1-cm grid paper.



2. Use 1-cm grid paper.

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



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

Yace each pair of fractions on a number line.

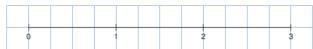






4. Use 1-cm grid paper.

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



Place these numbers on the number line:

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

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: $1\frac{3}{5}$, $\frac{7}{5}$, $\frac{4}{5}$

- 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) $\frac{8}{9} = \frac{32}{12}$
- 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

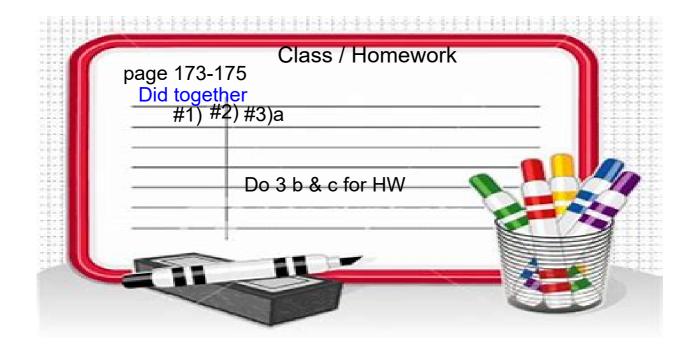
4. Use 1-cm grid paper.

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

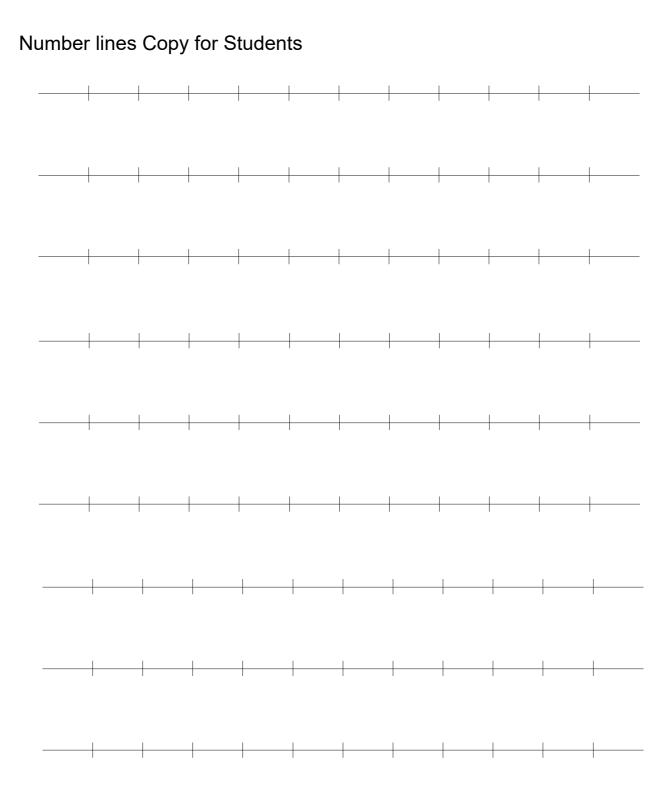


Place these numbers on the number line:

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



Number lines PDF



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.

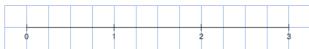


Place these numbers on the line: $1\frac{3}{5}$, $\frac{7}{5}$, $\frac{4}{5}$

- 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.



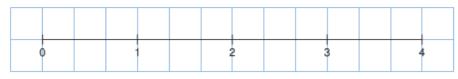
Place these numbers on the number line:

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

5. Use 1-cm grid paper.

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





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) $\frac{10}{3}$, $2\frac{1}{4}$, $\frac{3}{2}$

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

Page 173-175

- 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 $\frac{9}{3}$ 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?