



Warm up Grade 6

Date: Jan 18

Chapter 5

Lesson 3 Day 2.5

COPY down

Compare to determine which is larger

*Mixed*  
 $3\frac{7}{12}$   
*Bigger*

*Improper*  
 $\frac{7}{2}$   
 $\Rightarrow 3\frac{1}{2} \times 6$   
 $3\frac{6}{12}$

①  
①

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$3\frac{7}{12} > \frac{7}{2}$   
①

**Practice**

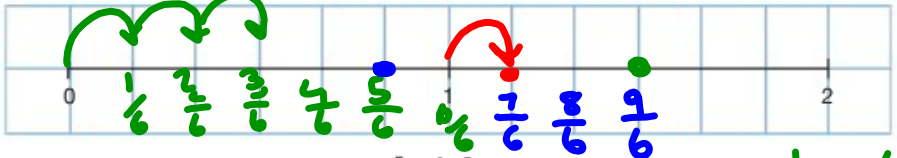


Your teacher will give you copies of number lines for questions 3, 6, and 7.

**HW Solutions**

1. Use 1-cm grid paper.

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

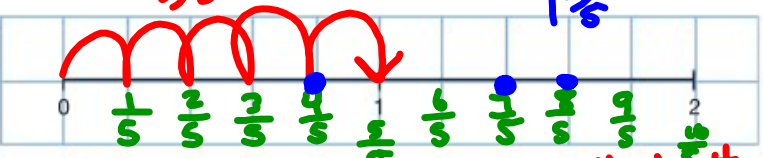


Place these numbers on the line:  $\frac{5}{6}, 1\frac{1}{6}, \frac{9}{6}$

line cut into 6 pieces  
 $1 = \frac{6}{6}$   
 $1\frac{1}{6} = \frac{7}{6}$

2. Use 1-cm grid paper.

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



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

Takes 5 jumps to get to 1

whole # cut into 5 piece

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

Place each pair of fractions on a number line.

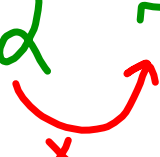
- a)  $\frac{8}{3}$  and  $\frac{6}{4}$
- b)  $\frac{12}{5}$  and  $\frac{8}{3}$
- c)  $\frac{14}{6}$  and  $\frac{17}{8}$
- d)  $\frac{11}{10}$  and  $\frac{20}{15}$
- e)  $\frac{9}{5}$  and  $\frac{8}{6}$
- f)  $\frac{12}{9}$  and  $\frac{11}{5}$

2)  $\frac{8}{3} \times 4 = \frac{32}{12}$  Bigger  
 $\frac{6}{4} \times 3 = \frac{18}{12}$

Mult  
 3 → 3, 6, 9, 12, 15  
 4 → 4, 8, 12

b)  $\frac{12}{5} \times 3 = \frac{36}{15}$   
 $\frac{8}{3} \times 5 = \frac{40}{15}$  Bigger  
 3 → 3, 6, 9, 12, 15  
 5 → 5, 10, 15, 20

Mixed to improper

$$2 \frac{1}{7} = \frac{15}{7}$$


Improper to Mixed  $\Rightarrow$  Division with Remainder of fraction

$$\frac{38}{7} = 5 \frac{3}{7}$$

$$\begin{array}{r} 5 \\ 7 \overline{) 38} \\ \underline{-35} \\ 3 \end{array}$$

3 Remainder

# Do this together

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

c)  $\frac{14}{6}$  and  $\frac{17}{8}$   
 e)  $\frac{9}{5}$  and  $\frac{8}{6}$

d)  $\frac{11}{10}$  and  $\frac{20}{15}$   
 f)  $\frac{12}{9}$  and  $\frac{11}{5}$

6 → 6, 12, 18, **24**, 30 ...

8 → 8, 16, **24**, ...

c)  $\frac{14}{6} \xrightarrow{\times 4} \frac{56}{24}$  Bigger

$\frac{17}{8} \xrightarrow{\times 3} \frac{51}{24}$

OR c)  $\frac{14}{6} = 2\frac{2}{6}$   
 $\frac{17}{8} = 2\frac{1}{8}$   
 Write common Denominator for fraction

$2\frac{2}{6} \xrightarrow{\times 4} 2\frac{8}{24}$  Bigger

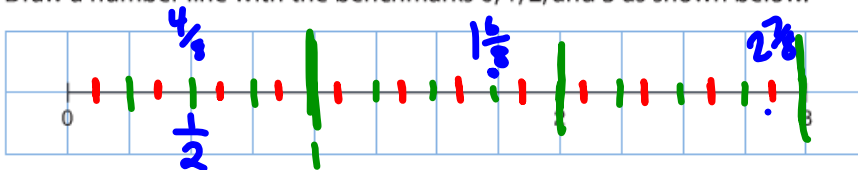
$2\frac{1}{8} \xrightarrow{\times 3} 2\frac{3}{24}$

d)  $\frac{11}{10} \xrightarrow{\times 3} \frac{33}{30}$

$\frac{20}{15} \xrightarrow{\times 2} \frac{40}{30}$  Bigger

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:

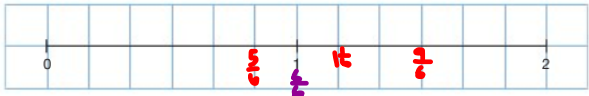
$\frac{1}{2}, \frac{23}{8}, 1\frac{3}{4}$

$\frac{1}{2}, 2\frac{7}{8}, 1\frac{3}{4}$   
 $\frac{1}{8}, 2\frac{7}{8}, 1\frac{6}{8}$   
 C.D. → 8  
 $\times 2$

**Practice**

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:  $\frac{5}{6}, 1\frac{1}{6}, \frac{9}{6}, \frac{7}{3}$

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.

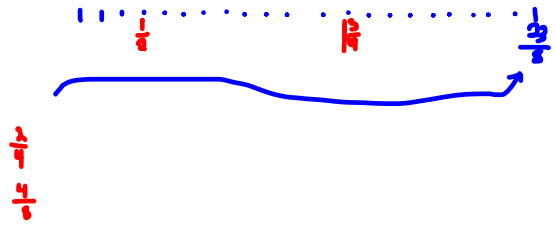
- a)  $\frac{8}{3}$  and  $\frac{6}{4}$
- b)  $\frac{12}{5}$  and  $\frac{8}{3}$
- c)  $\frac{14}{6}$  and  $\frac{17}{8}$
- d)  $\frac{11}{10}$  and  $\frac{20}{15}$
- e)  $\frac{9}{5}$  and  $\frac{8}{6}$
- f)  $\frac{12}{9}$  and  $\frac{11}{5}$

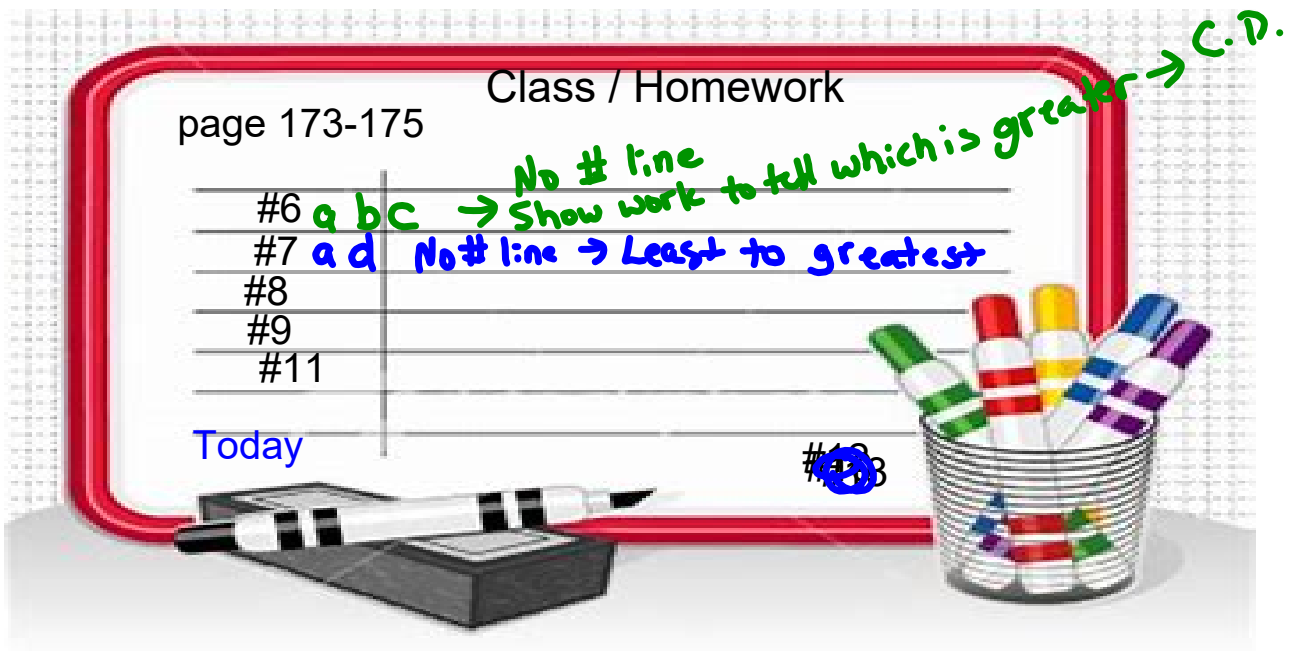
a)  $\frac{8}{3} = \frac{32}{12}$       b)  $\frac{12}{5} = \frac{36}{15}$       c)  $\frac{14}{6} = \frac{56}{24}$       d)  $\frac{11}{10} = \frac{33}{30}$

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

e)  $\frac{9}{5} = \frac{54}{30}$       f)  $\frac{12}{9} = \frac{60}{45}$

$\frac{8}{6} = \frac{40}{30}$        $\frac{11}{5} = \frac{99}{45}$





Number lines PDF



Number lines Copy for Students



**Practice**



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  $\frac{11}{5}$

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.
9. Adriel watched a  $1\frac{3}{4}$ -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  $3\frac{1}{2}$  h. Marty played the same board game for  $\frac{37}{12}$  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  $4\frac{1}{2}$  dozen pancakes, Addie made  $\frac{28}{6}$  dozen pancakes, and Penny made  $\frac{13}{3}$  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:  $\frac{3}{5}$ ,  $\frac{11}{2}$ ,  $\frac{83}{10}$ . Describe where you would place each fraction. Which fraction is the greatest? The least?