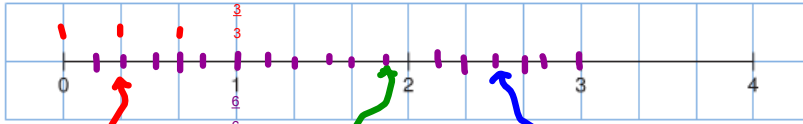


5. Use 1-cm grid paper.

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



Place these numbers on the number line:

$\frac{5}{2}, \frac{2}{3}, 1\frac{5}{6}$   
 $\frac{4}{6}, \frac{11}{6}$

$\frac{5}{2} = \frac{15}{6}$

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)  $3\frac{5}{6}, 3\frac{8}{12}$

a)  $\frac{5}{8} = \frac{10}{16} > \frac{7}{16}$

b)  $\frac{3}{4} = \frac{9}{12} = \frac{9}{12}$

c)  $2\frac{1}{2} = \frac{5}{2} < \frac{9}{2}$

d)  $\frac{13}{10} > 1\frac{1}{5}$   
 $\frac{6}{5} = \frac{12}{10}$

e)  $\frac{29}{5} < 6\frac{2}{10}$   
 $\frac{59}{10} < \frac{62}{10}$

f)  $3\frac{5}{6} < 3\frac{8}{12}$   
 $\frac{23}{6} < \frac{56}{12}$   
 $\frac{46}{12} < \frac{56}{12}$

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

Show how you did it.

List the numbers from least to greatest.

a)  $\frac{5}{6}, \frac{15}{9}, 1\frac{5}{12}$

$\frac{5}{6} = \frac{15}{18}$        $\frac{17}{12}$

$\frac{15}{9} = \frac{15 \times 4}{9 \times 4} = \frac{17}{12}$        $\frac{17}{12} \times 3 = \frac{51}{36}$

$\frac{30}{36} = \frac{60}{72}$        $\frac{51}{36} = \frac{51 \times 2}{36 \times 2} = \frac{102}{72}$

Order

$\frac{5}{6}, 1\frac{5}{12}, \frac{15}{9}$

b)  $\frac{9}{4}, 2\frac{2}{3}, \frac{11}{6}$

$\frac{9}{4} = \frac{27}{12}$        $\frac{27}{12}$

$2\frac{2}{3} = \frac{40}{12}$        $\frac{40}{12}$

$\frac{11}{6} = \frac{22}{12}$        $\frac{22}{12}$

$\frac{11}{6}, \frac{9}{4}, 2\frac{2}{3}$

c)  $\frac{9}{10}, \frac{7}{5}, \frac{11}{4}$

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

$\frac{10}{3} = \frac{40}{12}$        $2\frac{1}{4} = \frac{9}{4} = \frac{27}{12}$        $\frac{3}{2} = \frac{18}{12}$

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

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

$$\frac{17}{3} = 5\frac{2}{3} < 5\frac{3}{4}$$

1/3 from being whole      1/4 from being whole  
1/3 is a bigger gap than 1/4 from being whole  
or

$$5\frac{2}{3} = \frac{5 \cdot 4 + 2 \cdot 4}{12} = \frac{20 + 8}{12} = \frac{28}{12}$$

$$5\frac{3}{4} = \frac{5 \cdot 3 + 3 \cdot 3}{12} = \frac{15 + 9}{12} = \frac{24}{12}$$

$$\frac{28}{12} < \frac{24}{12}$$

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?

$$\text{Nadir } \frac{3}{2} = 1\frac{1}{2} = 1\frac{2}{4} < 1\frac{3}{4}$$

Adriel watched more

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.

$$3\frac{1}{2} = \frac{7}{2} = \frac{42}{12} \text{ hr}$$

$$3\frac{1}{2} \text{ hr}$$

$$\frac{37}{12} = 3\frac{1}{12} \text{ hr}$$

Justine played longer



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.



$$R \quad 4\frac{1}{2} = 4\frac{2}{4}$$

$$A \quad \frac{28}{6} = 4\frac{2}{3} \leftarrow \text{Most}$$

$$P \quad \frac{13}{3} = 4\frac{1}{3} = 4\frac{2}{6}$$

Addie made the most

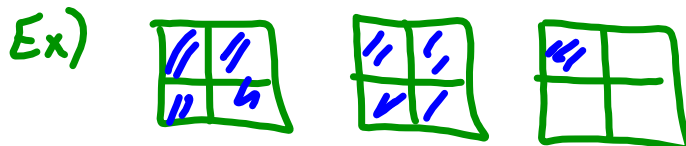
12. Florence and her friends Rafael and Bruno race model cars. Florence's car completed  $2\frac{1}{4}$  laps of a track in 1 min. Rafael's car completed  $\frac{8}{3}$  laps of the track in 1 min. Bruno's car completed  $\frac{11}{12}$  laps of the track in 1 min. Whose car was fastest? How do you know?



13. Use your ruler as a number line. Visualize placing these fractions on your ruler:  $4\frac{3}{5}$ ,  $\frac{11}{2}$ ,  $\frac{83}{10}$ . Describe where you would place each fraction. Which fraction is the greatest? The least?

## Fraction Quiz Tomorrow

→ Given a diagram of fraction write each as improper or mixed



→ Draw a diagram of a mixed or improper

Ex) Draw  $\frac{15}{7}$

→ Are the fractions equivalent

Ex)  $\frac{14}{10}$   $\frac{5}{20}$   
 $\frac{14}{10}$  No

→ Write an equivalent fraction to the following

Ex)  $\frac{7}{11}$

→ Write each Mixed fraction as improper Ex)  $4\frac{3}{8}$

→ Write the improper fraction as Mixed Ex)  $\frac{23}{10}$

→ Word problem

→ Order the 3 fraction from least to greatest