



Warm up Grade 6

Date: _____

Chapter 5

Lesson 4 Day 1

#1) Think of a clock to answer the following

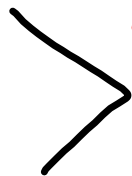


David watch a movie that was $2 \frac{1}{4}$ hours long. Frank watched a movie that was $\frac{125}{60}$ hours long. Who watched the longer movie?

60 *Change Improper to mixed*

(Show work on how you know)

$$2 \frac{1}{4} \xrightarrow{\begin{smallmatrix} \times 15 \\ \times 15 \end{smallmatrix}} 2 \frac{15}{60}$$



$$2 \frac{5}{60}$$

$$\frac{125}{60} = 2 \frac{5}{60}$$

common denominators of 60 on fraction

David watched the longer movie

$5 \frac{1}{4}$ dozens of rolls
→ 12

5 full groups of 12

$$\begin{array}{r} 5 \times 12 = 60 \\ + 3 \\ \hline 63 \text{ rolls} \end{array}$$

$$\frac{1}{4} \text{ of } 12 = \frac{12}{4} = 3 \text{ rolls}$$

$$8a) \frac{7}{9}, 2\frac{1}{3}, \frac{17}{3}$$

$$\frac{7}{9}, 2\frac{1}{3}, 5\frac{2}{3}$$

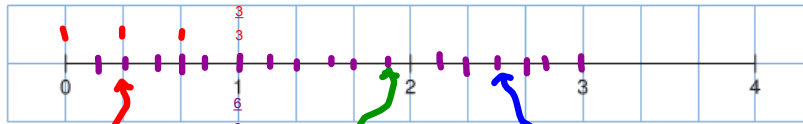
↓
less
than 1

greatest to least

$$\frac{17}{3}, 2\frac{1}{3}, \frac{7}{9}$$

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

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

Show how you did it.

List the numbers from least to greatest.

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

$\frac{5}{6} = \frac{15}{18}$
 $\frac{15}{9} = \frac{17}{12}$

$5 \times 6 = 30$
 $15 \times 4 = 60$
 $17 \times 3 = 51$
 $6 \times 6 = 36$
 $9 \times 4 = 36$
 $12 \times 3 = 36$

$\frac{30}{36}$
 $\frac{60}{36}$
 $\frac{51}{36}$

Order

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

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

$\frac{9}{4} = \frac{27}{12}$
 $2\frac{2}{3} = \frac{14}{6} = \frac{28}{12}$

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

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

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

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

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

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?