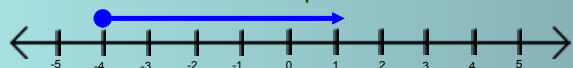


1) What is the range of the following data set:

34, 56, 78, 88, 88, 90, 95, 102

$$102 - 34 = 68$$

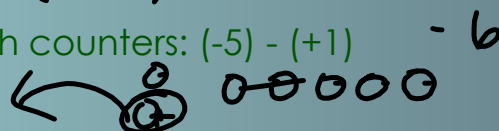
2) What is the addition equation for the number line?



$$(-4) + (+5)$$

3) Represent the subtraction equation with counters: $(-5) - (+1)$

$$(+8) - (-9) = +17$$



$$56 \div 7$$

8

$$62 \times 0.5$$

31

7) What is the median for the data set : 3, 4, 5, 5, 6, 7

$$5 + 5 = 10 \div 2 = 5$$

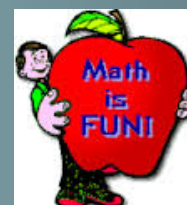
8) What number is divisible by 4? a) 310 b) 918 c) 608

9) What number is divisible by 6? a) 932 b) 342 c) 502

10) $1/4$ of 8

$$8 \div 4 = 2$$

14 9 7





$$\frac{4}{5} \times 2 = \frac{8}{10} = 0.8$$

$$\frac{4}{5} \div 2 = \frac{8}{10} = 0.8$$

What is a repeating decimal?
Give an example.

What is a terminating decimal?
Give an example.

0.2

$$0.4 = \frac{4}{10}$$

$$0.67 = \frac{67}{100}$$



3.2

Comparing and Ordering Fractions and Decimals

Focus

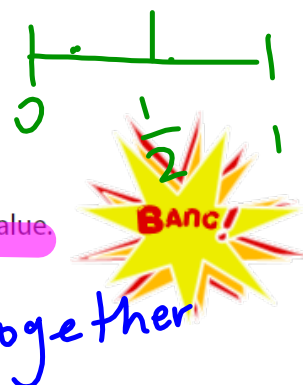
Use benchmarks, place value, and equivalent fractions to compare and order fractions and decimals.

Recall how to use the benchmarks 0 , $\frac{1}{2}$, and 1 to compare fractions.

For example, $\frac{3}{20}$ is close to 0 because the numerator is much less than the denominator.

$\frac{11}{20}$ is close to $\frac{1}{2}$ because the numerator is about $\frac{1}{2}$ the denominator.

$\frac{19}{20}$ is close to 1 because the numerator and denominator are close in value.



$$\frac{17}{25}, \frac{4}{25}, \frac{24}{25}$$

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

Use any materials to help.

0.6

Dusan, Sasha, and Kimberley sold chocolate bars as a fund-raiser for their choir.

The bars were packaged in cartons, but sold individually.

Dusan sold $2\frac{2}{3}$ cartons. Sasha sold $\frac{5}{2}$ cartons. Kimberley sold 2.25 cartons.

Who sold the most chocolate bars?

$$\textcircled{2}\frac{2}{3} = 2.6 - \text{Dusan sold the most.}$$

$$\frac{5}{2} = 2.5$$

2.25

Example

a) Write these numbers in order from least to greatest: $\frac{7}{8}, \frac{9}{8}, 1\frac{1}{4}, 0.75$



$$\begin{array}{l}
 \cancel{\frac{7}{8} = 0.875} \\
 \frac{9}{8} = 1.125 \\
 1\frac{1}{4} = 1.250 \\
 \cancel{0.75 = 0.75}
 \end{array}$$

$$\begin{array}{l}
 1.250 \\
 1.125
 \end{array}$$

We can also use place value to order decimals.

a) Write each number as a decimal.

$\frac{7}{8} = 0.875$

$\frac{9}{8} = 1.125$

$1\frac{1}{4} = 1.25$

0.75

Write each decimal in a place-value chart.
Compare the ones.
Two numbers have 1 one and two numbers have 0 ones.

Ones	Tenths	Hundredths	Thousandths
0	8	7	5
1	1	2	5
1	2	5	0
0	7	5	0

Look at the decimals with 0 ones: **0.875**, **0.750**
Compare the tenths: 7 tenths is less than 8 tenths, so $0.750 < 0.875$

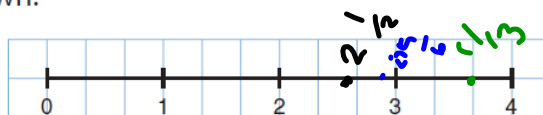
Look at the decimals with 1 one: **1.125** and **1.250**
Compare the tenths: 1 tenth is less than 2 tenths, so $1.125 < 1.250$

2. Use 1-cm grid paper.

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

Use the number line to order these numbers from greatest to least.

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



3. Use benchmarks and a number line to order each set of numbers from least to greatest.

a) $\frac{7}{6}, \frac{15}{12}, 1\frac{2}{9}, 1$

b) $1\frac{3}{4}, \frac{7}{3}, \frac{7}{6}, 2$

c) $\frac{7}{4}, \frac{15}{10}, \frac{11}{5}, 2$

d) $\frac{10}{4}, 2\frac{1}{3}, \frac{9}{2}, 3$

$$2\frac{1}{2} : 2.5$$

$$\frac{11}{3} : 3.\bar{6}$$

$$2\frac{5}{6} = 2.8\bar{3}$$

p. 94

q. 2 to 5, 7 to 9

4. Use equivalent fractions.

Order each set of numbers from greatest to least.

Verify by writing each fraction as a decimal.

a) $3\frac{1}{2}, \frac{13}{4}, 3\frac{1}{8}$ b) $\frac{5}{6}, \frac{2}{3}, 1\frac{1}{12}, \frac{9}{12}$ c) $1\frac{2}{5}, \frac{4}{3}, \frac{3}{2}$

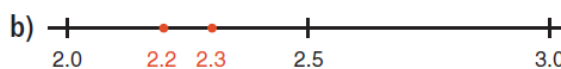
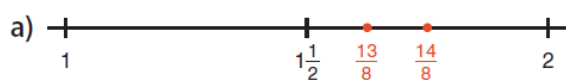
5. Use place value.

Order each set of numbers from least to greatest.

Verify by using a number line.

a) $\frac{7}{4}, 1.6, 1\frac{4}{5}, 1.25, 1$ b) $2\frac{5}{8}, 1.875, 2\frac{3}{4}, \frac{5}{2}, 2$

7. Find a number between the two numbers represented by each pair of dots.



8. Find a number between each pair of numbers.

a) $\frac{5}{7}, \frac{6}{7}$

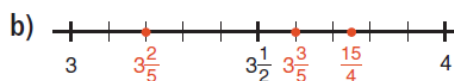
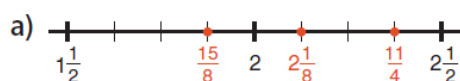
b) $1\frac{2}{5}, \frac{8}{5}$

c) $1.3, 1\frac{2}{5}$

d) $0.5, 0.6$

9. Identify the number that has been placed incorrectly.

Explain how you know.



b) Write a fraction between $\frac{9}{8}$ and $1\frac{1}{4}$.

b) $\frac{9}{8} = 1.125$ $1\frac{1}{4} = 1.25$



Use the number line above.

1.2 lies between 1.125 and 1.25.

Write 1.2 as a fraction.

1.2 is $1\frac{2}{10}$, or $1\frac{1}{5}$.

So, $1\frac{1}{5}$, or $\frac{6}{5}$, lies between $\frac{9}{8}$ and $1\frac{1}{4}$.

There are many other possible fractions between $\frac{9}{8}$ and $1\frac{1}{4}$.

