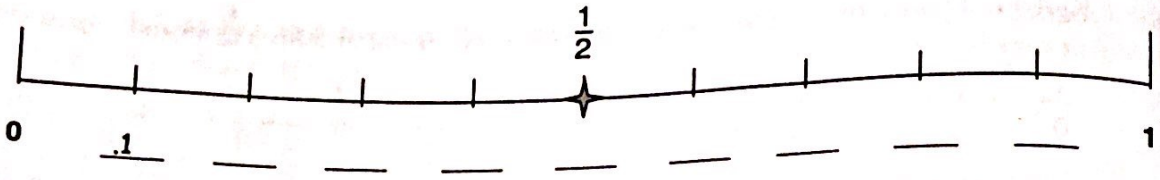
NS5-87: Comparing and Ordering Fractions and Decimals

1.



a) Write a decimal for each point marked on the number line. (The first decimal is written for you.)

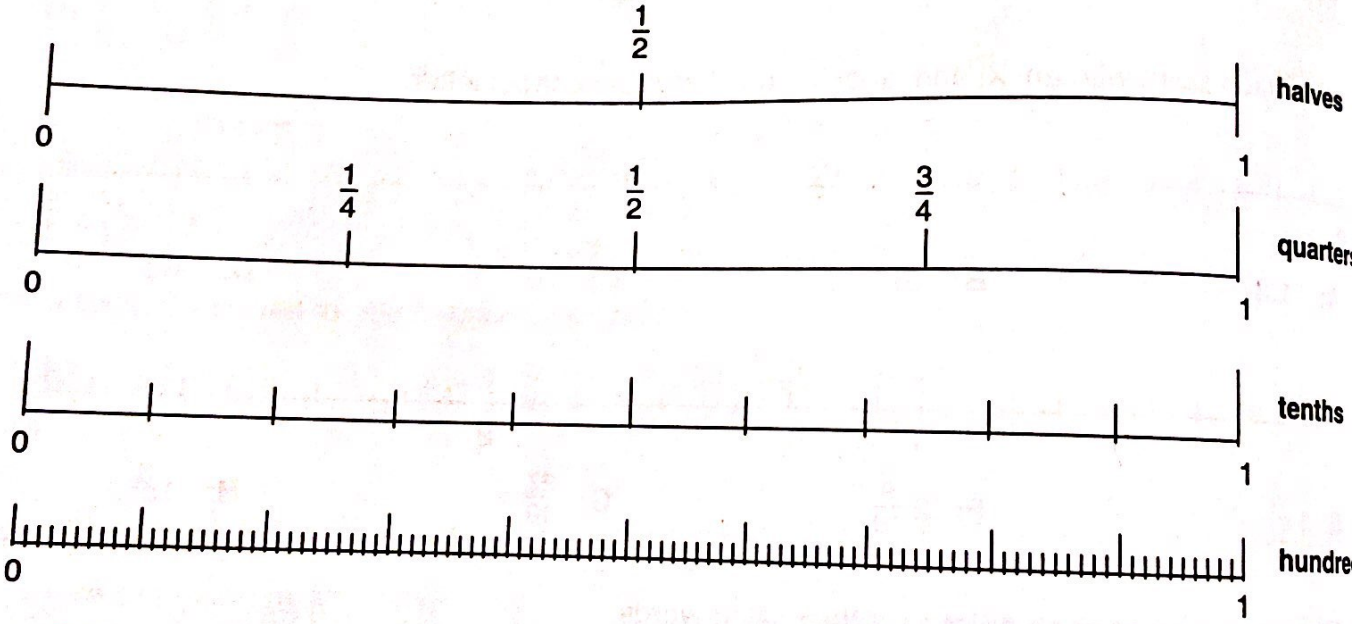
b) Which decimal is equal to one half? $\frac{1}{2}$ =

2. Use the number line in Question 1 to say whether each decimal is closer to "zero", "a half" or "one".

a) .2 is closer to _____ b) .6 is closer to _____ c) .9 is closer to _____

d) .4 is closer to _____ e) .8 is closer to _____ f) .1 is closer to _____

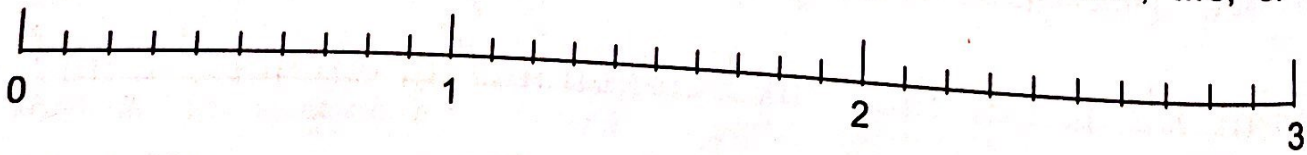
3. Use the number lines below to compare the numbers given. Write < (less than) or > (greater than) between each pair of numbers.



a) 0.4 ☐ $\frac{1}{2}$ b) 0.9 ☐ $\frac{3}{4}$ c) 0.7 ☐ $\frac{1}{4}$ d) 0.6 ☐ $\frac{1}{4}$

e) 0.3 ☐ $\frac{1}{2}$ f) 0.25 ☐ $\frac{1}{2}$ g) 0.85 ☐ $\frac{3}{4}$ h) $\frac{1}{3}$ ☐ .45

4. Which whole number is each decimal or mixed fraction closest to: "zero", "one", "two," or "three"?



a) 1.3 is closest to _____ b) 1.9 is closest to _____ c) $2\frac{2}{10}$ is closest to _____

NS5-88: Ordering Fractions and Decimals

1. Write the numbers in order by first changing each decimal to a fraction with a denominator of 10.
NOTE: Show your work below each number.

a) 0.7 0.3 0.5

$\frac{7}{10}$ ☐ ☐

b) $\frac{1}{10}$ 0.3 0.9

☐ ☐ ☐

c) 0.2 0.6 $\frac{3}{10}$

☐ ☐ ☐

d) 1.2 3.5 3.1

$1\frac{2}{10}$ ☐ ☐

e) 1.5 1.2 1.7

☐ ☐ ☐

f) $1\frac{1}{10}$ .7 3.5

☐ ☐ ☐

g) $1\frac{3}{10}$ 1.2 1.1

☐ ☐ ☐

h) 4.5 3.2 $1\frac{7}{10}$

☐ ☐ ☐

i) 2.3 2.9 $2\frac{1}{2}$

☐ ☐ ☐

2. Karen says: "To compare .6 and .42, I add a zero to .6:

.6 = 6 tenths = 60 hundredths = .60

60 (hundredths) is greater than 42 (hundredths).

So .6 is greater than .42."

Add a zero to the decimal expressed in tenths. Then circle the greater number in each pair.

a) .7 .52 b) .34 .6 c) .82 .5

3. Write each decimal as a fraction with denominator 100 by first adding a zero to the decimal.

a) .7 = .70 = $\frac{70}{100}$ b) .6 = ☐ = ☐ c) .5 = ☐ = ☐

4. Write the numbers in order from least to greatest by first changing all of the decimals to fractions with denominator 100.

a) .2 .8 .35

☐ ☐ ☐

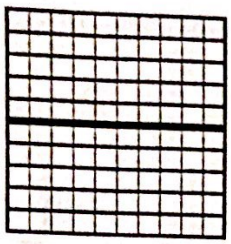
b) $\frac{27}{100}$ .9 .25

☐ ☐ ☐

c) 1.3 $1\frac{22}{100}$ $1\frac{39}{100}$

☐ ☐ ☐

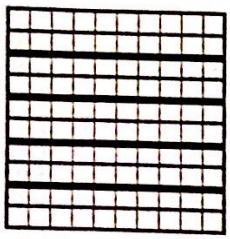
NS5-88: Ordering Fractions and Decimals *(continued)*

5. 

Shade $\frac{1}{2}$ of the squares. Write 2 fractions and 2 decimals for $\frac{1}{2}$.

Fractions: $\frac{1}{2} = \frac{\quad}{10} = \frac{\quad}{100}$

Decimals: $\frac{1}{2} = .\_\_\_ = .\_\_\_$

6. 

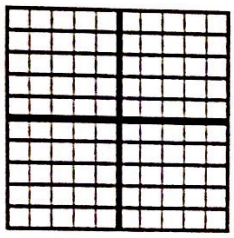
Shade $\frac{1}{5}$ of the boxes. Write 2 fractions and 2 decimals for $\frac{1}{5}$.

Fractions: $\frac{1}{5} = \frac{\quad}{10} = \frac{\quad}{100}$

Decimals: $\frac{1}{5} = .\_\_\_ = .\_\_\_$

7. Write equivalent fractions.

a) $\frac{2}{5} = \frac{\quad}{10} = \frac{\quad}{100}$ b) $\frac{3}{5} = \frac{\quad}{10} = \frac{\quad}{100}$ c) $\frac{4}{5} = \frac{\quad}{10} = \frac{\quad}{100}$

8. 

Shade $\frac{1}{4}$ of the squares. Write a fraction and a decimal for $\frac{1}{4}$.

Fraction: $\frac{1}{4} = \frac{\quad}{100}$ *Decimal:* $\frac{1}{4} = .\_\_\_$

Fraction: $\frac{3}{4} = \frac{\quad}{100}$ *Decimal:* $\frac{3}{4} = .\_\_\_$

9. Circle the greater number.

HINT: First change all fractions and decimals to fractions with denominator 100.

a) $\frac{1}{2}$ .37 b) $\frac{1}{4}$ .52 c) $\frac{2}{5}$ .42

$\frac{50}{100}$ ☐ ☐ ☐ ☐ ☐ ☐

d) .7 $\frac{3}{5}$ e) .23 $\frac{1}{5}$ f) .52 $\frac{1}{2}$

☐ ☐ ☐ ☐ ☐ ☐

10. Write the numbers in order from least to greatest. Explain how you found your answers.

a) .7 .32 $\frac{1}{2}$ b) $\frac{1}{4}$ $\frac{3}{5}$ .63 c) $\frac{2}{5}$ .35 $\frac{1}{2}$