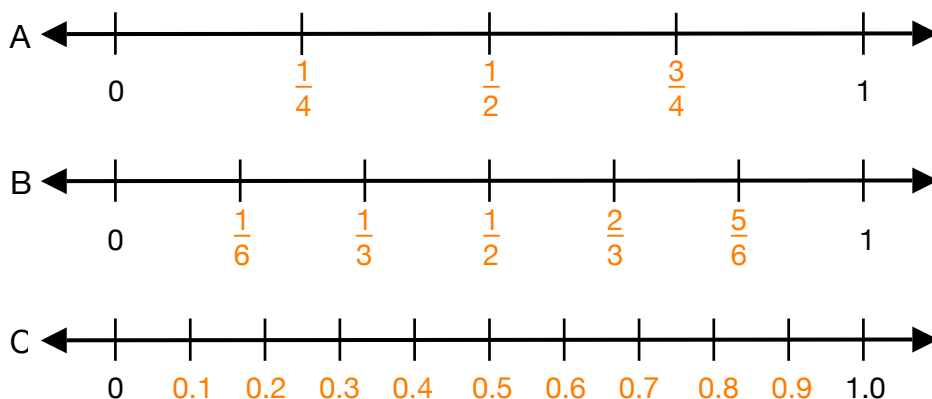


1. Line A is divided into fourths. Label each mark with a fraction in simplest terms.
Line B is divided into sixths. Label each mark with a fraction in simplest terms.
Line C is divided into tenths. Label each mark using a decimal.



2. What mark on line A is closest to each of the following decimals? Explain your reasoning.

0.9 1 $\frac{3}{4} = 0.75$, so it is 0.15 away from 0.9.
One is only 0.1 away from 0.9, so 1 is closer to 0.9.

0.3 $\frac{1}{4}$ $\frac{1}{4} = 0.25$ and $\frac{1}{2} = 0.5$, so $\frac{1}{4}$ is closer to 0.3.

3. What mark on line B is closest to each of the following decimals? Explain your reasoning.

0.4 $\frac{1}{3}$ $\frac{1}{3}$ is about 0.33 and $\frac{1}{2}$ is 0.5, so $\frac{1}{3}$ is closer to 0.4.

0.1 $\frac{1}{6}$ $\frac{1}{3}$ is about 0.33; $\frac{1}{6}$ is half of $\frac{1}{3}$, so it is about 0.17.
0.1 is between 0 and $\frac{1}{6}$, but closer to 0.17 than 0.

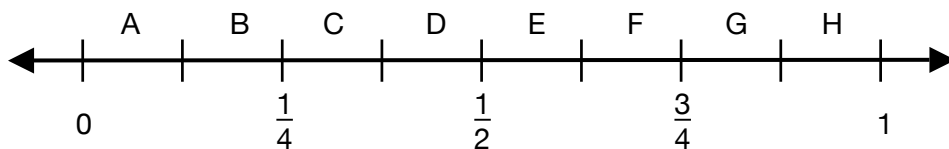
4. What mark on line C is closest to each of the following fractions? Explain your reasoning.

$\frac{3}{4}$ 0.7 or 0.8 $\frac{3}{4} = 0.75$, so it is halfway between 0.7 and 0.8.

$\frac{2}{3}$ 0.7 $\frac{2}{3}$ is about 0.67, so it is closer to 0.7 than 0.6.

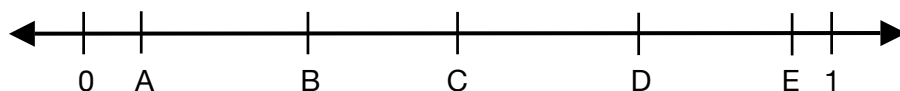
$\frac{1}{6}$ 0.2 $\frac{1}{3}$ is about 0.33; $\frac{1}{6}$ is half of $\frac{1}{3}$, so it is about 0.17.
0.17 is closer to 0.2 than 0.1.

5. In which lettered-section is each of the following decimals located? Explain your reasoning.



- 0.76 G 0.76 is a little larger than 0.75 which is equivalent to $\frac{3}{4}$.
- 0.48 D 0.48 is slightly less than 0.50 which is equivalent to $\frac{1}{2}$.
- 0.23 B 0.23 is slightly less than 0.25 which is equivalent to $\frac{1}{4}$.
- 0.11 A $\frac{1}{4}$ is equivalent to 0.25 and $\frac{1}{8}$ is half of $\frac{1}{4}$, so $\frac{1}{8}$ is equivalent to 0.125.
0.11 is between 0 and 0.125.
- 0.9 H $\frac{1}{8}$ is equivalent to 0.125, so $\frac{7}{8}$ is equivalent to 7 times 0.125, or 0.875.
0.9 is greater than 0.875 and less than 1.
- 0.2 B $\frac{1}{4}$ is equivalent to 0.25 and $\frac{1}{8}$ is equivalent to 0.125.
0.2 is between 0.125 and 0.25.

6. Decide which letter best represents each fraction or decimal. Explain your reasoning.



- $\frac{1}{2}$ C C is exactly halfway between 0 to 1.
- 0.07 A A is close to 0 and 0.07 is close to 0.
- 0.7 D D looks like it is about three fourths of the way from 0 to 1.
0.7 is close to three fourths, or 0.75.
- 0.33 B B looks like it is about one third of the way from 0 to 1.
0.33 is close to one third.
- $\frac{11}{12}$ E E is close to one and $\frac{11}{12}$ is close to 1.