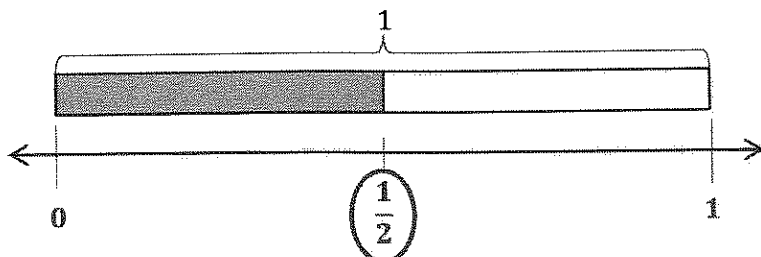


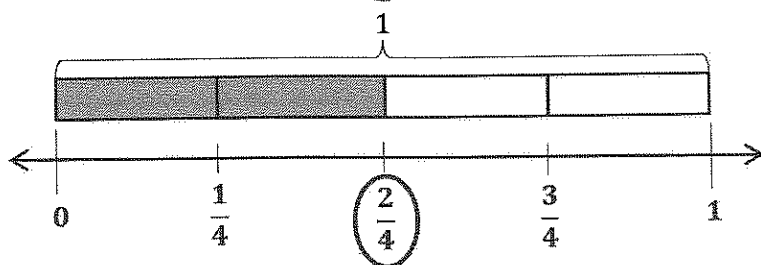
G4-M5-Lesson 11

1. Label each number line with the fractions shown on the tape diagram. Circle the fraction that labels the point on the number line and also names the shaded part of the tape diagram.

a.



b.



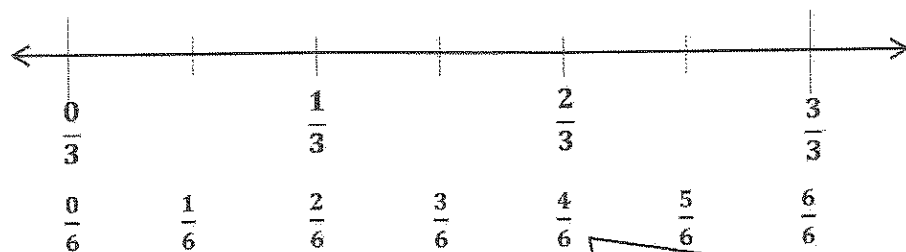
The number line and tape diagram show that $\frac{2}{4}$ is equivalent to $\frac{1}{2}$.

2. Write number sentences using multiplication to show the fraction represented in 1(a) is equivalent to the fraction represented in 1(b).

$$\frac{1}{2} = \frac{1 \times 2}{2 \times 2} = \frac{2}{4}$$

3.

- a. Partition a number line from 0 to 1 into thirds. Decompose $\frac{2}{3}$ into 4 equal lengths.



To decompose 2 thirds into 4 equal parts, each unit is partitioned into two. To name the new, smaller units, I decompose each third. Thirds become sixths, so $\frac{2}{3} = \frac{4}{6}$.

- b. Write 1 multiplication and 1 division sentence to show what fraction represented on the number line is equivalent to $\frac{2}{3}$.

$$\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$$

$$\frac{4}{6} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$