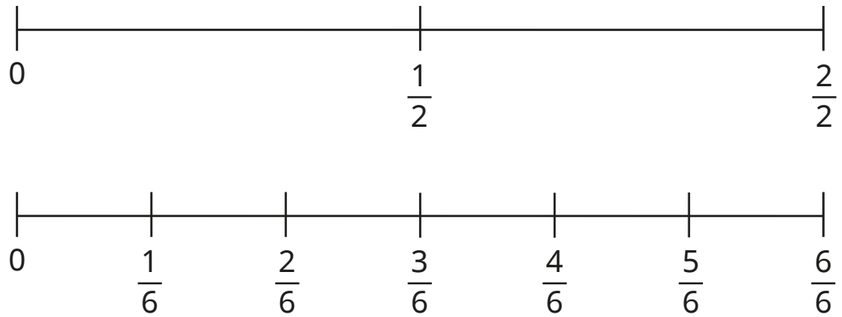
Equivalent fractions on a number line

1 Use the number lines to complete the equivalent fractions.



a) $\frac{1}{2}$ is equivalent to $\frac{\square}{6}$

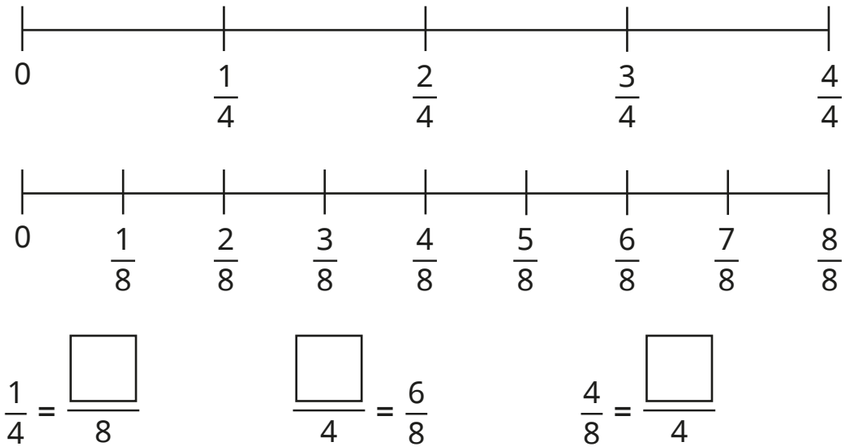
b) $\frac{1}{2}$ is equivalent to $\frac{\square}{8}$

c) $\frac{1}{2}$ is equivalent to $\frac{\square}{10}$

What do you notice?

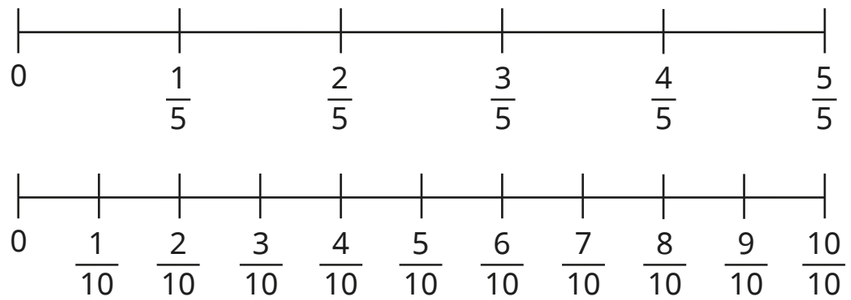
2 Use the number lines to complete the equivalent fractions.

a)



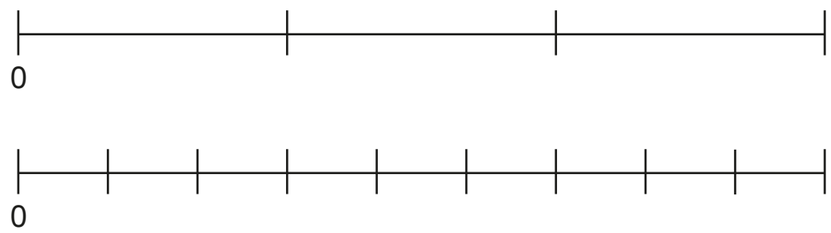
$\frac{1}{4} = \frac{\square}{8}$ $\quad \frac{\square}{4} = \frac{6}{8}$ $\quad \frac{4}{8} = \frac{\square}{4}$

b)



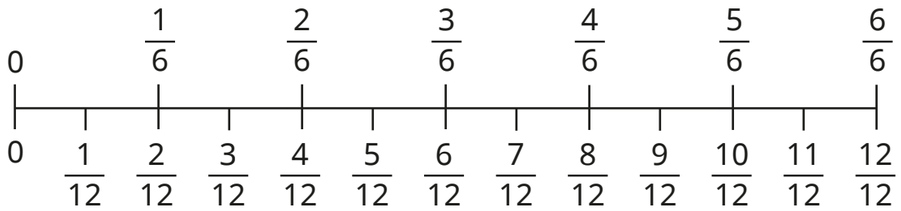
$\frac{2}{10} = \frac{\square}{5}$ $\quad \frac{\square}{10} = \frac{4}{5}$ $\quad \frac{3}{5} = \frac{\square}{10}$

c)



$\frac{6}{9} = \frac{\square}{3}$ $\quad \frac{\square}{9} = \frac{1}{3}$ $\quad \frac{3}{3} = \frac{\square}{9}$

3 Use the double number line to complete the equivalent fractions.



a) $\frac{6}{12} = \frac{\square}{6}$

c) $\frac{5}{6} = \frac{\square}{12}$

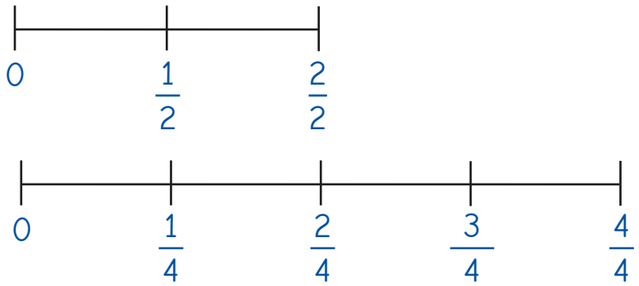
e) $\frac{8}{\square} = \frac{4}{\square}$

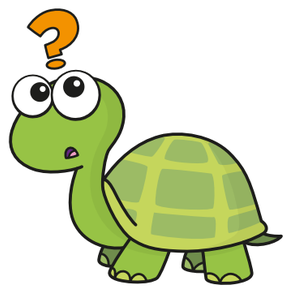
b) $\frac{\square}{6} = \frac{2}{12}$

d) $\frac{12}{12} = \frac{\square}{6}$

f) $\frac{\square}{\square} = \frac{4}{12}$

4 Tiny is drawing number lines to find equivalent fractions.





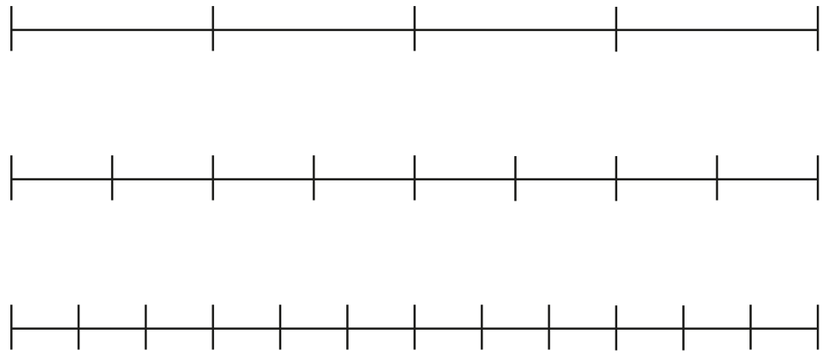
What mistake has Tiny made?

_____

_____

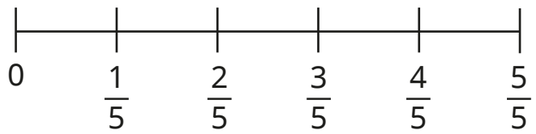
5 Use the number lines to find equivalent fractions.

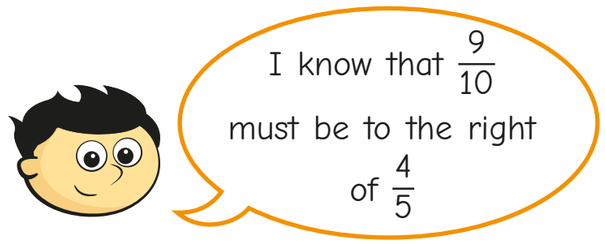
How many different equivalent fractions can you find?



Compare answers with a partner.

6 Jack is estimating where $\frac{9}{10}$ belongs on the number line.





a) How does Jack know this?

b) Estimate where $\frac{3}{10}$ and $\frac{7}{10}$ belong on the number line.