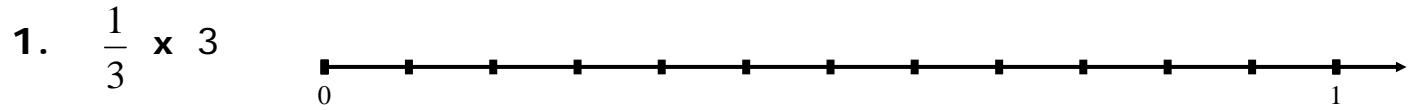


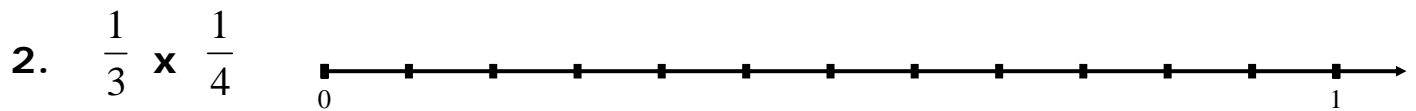
Multiplying and Dividing Fractions on a Number Line

Name _____

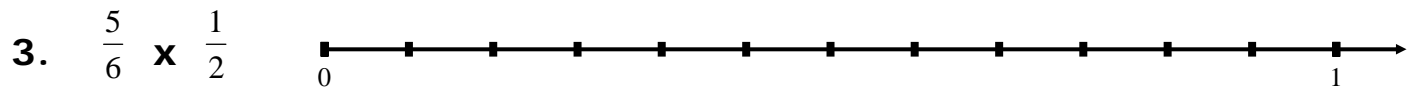
Place a large point on the number line to represent the first number in each problem. Shade the number line to model the problem and show the answer. Then, use math symbols to set up the problem and find the answer.



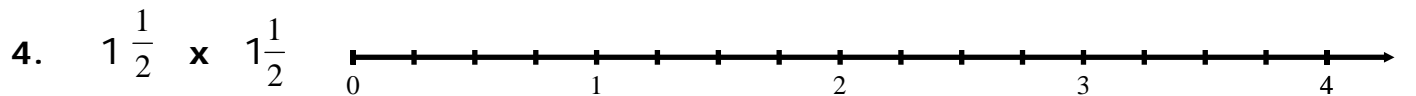
How much is $\frac{1}{3}$ added three times?



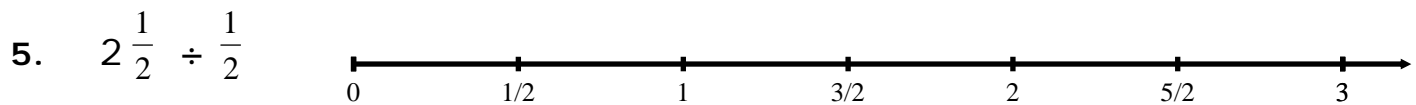
How much is $\frac{1}{3}$ added $\frac{1}{4}$ time?



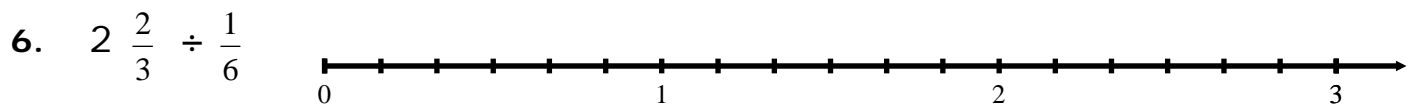
How much is $\frac{5}{6}$ added $\frac{1}{2}$ time?



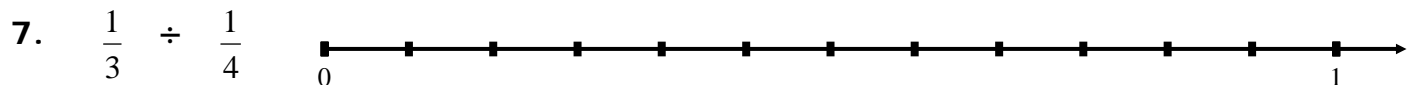
How much is $2\frac{1}{2}$ added $1\frac{1}{2}$ times?



How many $\frac{1}{2}$'s in $2\frac{1}{2}$?



How many $\frac{1}{6}$'s in $2\frac{2}{3}$?



How many $\frac{1}{4}$'s in $\frac{1}{3}$?

Using the Numline App On The TI-73 To Visualize Multiplying and Dividing Fractions

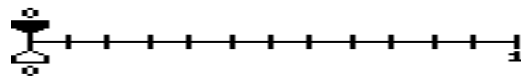
You must have downloaded the Numline App to your calculator, if it is not already preloaded.

Select **[APPS]**. Choose Numline. In Numline, select Fraction line. Push **[WINDOW]** and set the window as shown below. You may select a different minimum and maximum if you want numbers greater than 1. The "Start" can be adjusted to begin at any point on the number line. The "Step" can be adjusted to be increments common to both numbers using the LCD of two numbers

```
WINDOW
Min=0
Max=1
FRAC
Upper Indicator
Start=0
Step=1/12
↓Dec FRAC % Off

↑WINDOW
Lower Indicator
Start=0
Step=1/12
Dec FRAC % Off
```

After the window is set, press **[2nd]** **[MODE]**. The screen will look like this:



To show the first fraction, push **[DRAW]** and select drawLabel. Type the first fraction (using the **[b/c]** key). Press **[ENTER]** to see where that fraction is on the number line. Use the distance on the number line to predict where the answer to the problem will be located on the number line. Then type the entire problem and push **[ENTER]**. To begin another problem push **[DRAW]** and select ClearDraw and **[ENTER]**.