

**A. Choose**

### A. Choose the Correct Answer:

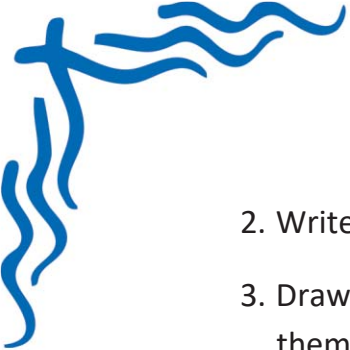
- Which fraction lies exactly halfway between 0 and 1 on a number line?  
a)  $\frac{1}{4}$   
b)  $\frac{1}{3}$   
c)  $\frac{1}{2}$   
d)  $\frac{3}{4}$
- On a number line divided into 4 equal parts between 0 and 1, what is the value at the third mark?  
a)  $\frac{1}{2}$   
b)  $\frac{3}{4}$   
c)  $\frac{1}{4}$   
d)  $\frac{2}{4}$
- Which point lies to the right of  $\frac{1}{2}$  on the number line?  
a)  $\frac{1}{4}$   
b)  $\frac{1}{3}$   
c)  $\frac{3}{4}$   
d)  $\frac{2}{6}$
- How many equal parts do you divide the line segment into to mark eighths between 0 and 1?  
a) 4  
b) 8  
c) 6  
d) 2
- What fraction is represented by the 5th mark on a number line from 0 to 1 divided into 6 equal parts?  
a)  $\frac{5}{6}$   
b)  $\frac{1}{5}$   
c)  $\frac{6}{6}$   
d)  $\frac{4}{6}$

**B. Write the Missing Terms to Complete the Sentences:**

1. A number line helps to show \_\_\_\_\_ values between whole numbers.
2. To mark  $\frac{1}{3}$  on a number line, we divide the section from 0 to 1 into \_\_\_\_\_ equal parts.
3. The fraction  $\frac{2}{4}$  is placed at the same point as \_\_\_\_\_ on the number line.
4.  $\frac{3}{5}$  lies between \_\_\_\_\_ and \_\_\_\_\_ on the number line.
5. A number line is divided into equal sections to represent different \_\_\_\_\_.

**C. Figure out the answers to these questions:**

1. Draw a number line from 0 to 1 and mark  $\frac{1}{2}$ ,  $\frac{1}{4}$ , and  $\frac{3}{4}$  on it.



2. Write a step-by-step method to show how to plot  $\frac{2}{5}$  on a number line.
3. Draw a number line from 0 to 2 and show all halves and quarters between them.
4. On a number line,  $\frac{1}{6}$  is marked. How many equal divisions are there between 0 and 1?
5. Compare the positions of  $\frac{1}{3}$  and  $\frac{2}{5}$  on a number line. Which is greater?
6. If a number line is marked with sixths, what fraction comes just before  $\frac{5}{6}$ ?

**D. Mark each sentence with a True (✓) or False (X):**

1.  $\frac{1}{2}$  is the same as  $\frac{2}{4}$  on the number line.
2. The number line can only show whole numbers.
3. A number line divided into 3 equal parts will show thirds.
4.  $\frac{3}{5}$  is located between  $\frac{1}{2}$  and 1 on the number line.
5. Fractions cannot be placed on a number line.

**E. Challenge yourself with these questions:**

1. Mark 0,  $\frac{1}{3}$ ,  $\frac{2}{3}$ , and 1 on a number line.
2. Draw a number line and label 0 to 2 with fifths.
3. Describe how you would show  $\frac{3}{8}$  on a number line using a ruler.
4. Find a pair of equivalent fractions and show both on the same number line.
5. Why is  $\frac{1}{2}$  always in the middle of 0 and 1? Explain using a diagram.
6. Draw a number line from 0 to 1 and mark  $\frac{1}{6}$ ,  $\frac{2}{6}$ ,  $\frac{3}{6}$ , and  $\frac{4}{6}$ .
7. Explain how a number line helps in comparing  $\frac{2}{5}$  and  $\frac{3}{5}$ .
8. Show fractions from 0 to 1 using tenths on a number line.
9. A line is divided into 10 equal parts. What fraction is at the 7<sup>th</sup> mark?
10. Write a real-life situation where using a number line for fractions is helpful.

**F. Represent the following fractions on the number line:**

- i.  $\frac{3}{5}$                       ii.  $\frac{5}{9}$                       iii.  $\frac{12}{24}$                       iv.  $\frac{24}{50}$