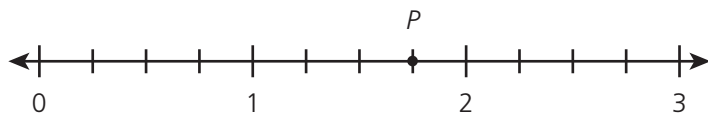


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# LESSON 12 Number Lines

A number can be located on a **number line**.



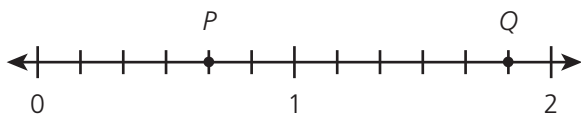
What number is marked  $P$  on this number line?

There are 4 equal spaces between 1 and 2 on the number line, so each tick mark stands for  $\frac{1}{4}$ . Since point  $P$  is on the third tick mark after 1,  $P$  marks the number  $1\frac{3}{4}$ .

The tick marks on a number line can stand for whole numbers, fractions, or decimals.

**Read each problem. Circle the letter of the best answer.**

Use this number line to answer questions 1 and 2.



**1** In lowest terms, what is the fraction marked  $P$  on the number line?

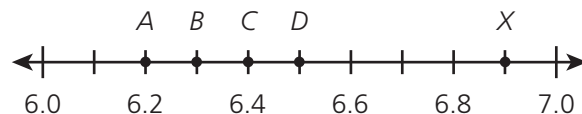
- A**  $\frac{1}{6}$                       **C**  $\frac{2}{3}$   
**B**  $\frac{1}{4}$                       **D**  $\frac{4}{7}$

There are 6 equal spaces between 0 and 1, so each tick mark stands for  $\frac{1}{6}$ . Point  $P$  is on the fourth tick mark after 0, so it stands for  $\frac{4}{6}$ . The fraction  $\frac{4}{6}$  reduces to  $\frac{2}{3}$ . The correct answer is C.

**2** What number is marked  $Q$  on the number line?

- A**  $1\frac{1}{6}$                       **C**  $1\frac{2}{3}$   
**B**  $1\frac{1}{5}$                       **D**  $1\frac{5}{6}$

Use the number line below to answer questions 3 and 4.



**3** Which point marks 6.3 on the number line?

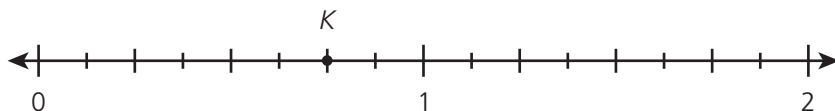
- A** point A  
**B** point B  
**C** point C  
**D** point D

**4** What number is marked  $X$  on the number line?

- A** 6.7  
**B** 6.8  
**C** 6.9  
**D** 7.1

Read each problem. Write your answers.

5 Look at this number line.



A What fraction is marked  $K$  on the number line? Write the fraction in lowest terms.

Answer: \_\_\_\_\_

B Explain how you found your answer.

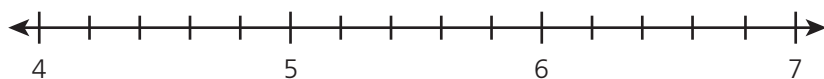
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6 Look at the number line below.



A On the number line above, mark the number  $4\frac{3}{5}$  with a dot and label it  $A$ .

B On the number line above, mark the number 6.4 with a dot and label it  $B$ .

C Explain how you found where to locate points  $A$  and  $B$  on the number line.

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