



**THIRD SPACE  
LEARNING**

# Decimal Number Lines Worksheet

Number and Quantity  
6.NS.C.6c

**Grades 6 to 8**

## Skill Questions

Name: .....

Date: .....

- 1 Plot the number 0.7 on a number line from 0 to 1.

- 2 Plot the number 3.2 on a number line from 3 to 4.

- 3 Order the following numbers from greatest to least on a number line: 4.1, 4 and 3.9.

- 4 Plot  $-2.3$ ,  $-1.5$ , and  $-3.8$  on a number line from  $-4$  to 0.

Answer

- 5 Which point on the number line plots 8.4?



Answer

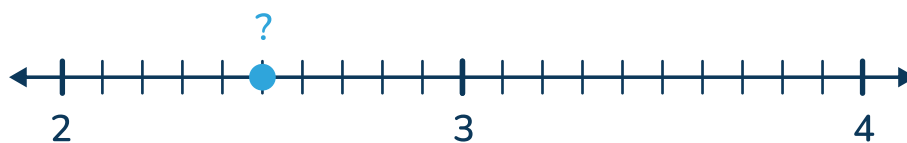
## Decimal Number Lines Worksheet | Grades 6 to 8

6 What is the point on the number line?



Answer

7 What is the point on the number line?



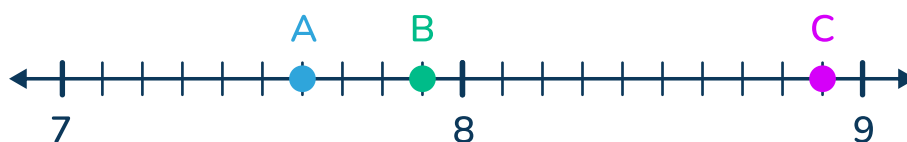
Answer

8 What is the point on the number line?



Answer

9 Which point on the number line plots 7.9?



Answer

10 Label the points on the number line.



Answer

## Applied Questions

- 11** Draw a number line that represents 3 to 4 and then locate the value pi. Explain how you determined the location.

Answer



- 12** The fractions  $\frac{3}{8}$  and  $\frac{27}{40}$  are plotted on a number line from 0 to 1. Without converting the fractions to decimals, explain which decimal each fraction is closest to, and why.

Answer



- 13** A roller coaster descends 9.85 meters in its first drop. It then ascends 4.325 meters along the track before making another descent. Plot and label these elevations on a number line from 0 meters to 10 meters.

Answer





## Dividing Decimals Worksheet | Grades 6 to 8

- 14** Plot the following numbers on a number line from 0 to 2: 1.25, 1.75, 0.5, 1.6, then order the numbers from least to greatest.

*Answer*

---



- 15** What is the smallest number you can plot halfway between 3.5 and 4 on a number line?

*Answer*

---



## Answers

Question number	Question	Answers	Standard
1	Plot the number 0.7 on a number line from 0 to 1.	Number line drawn between 0 and 1. 0.7 correctly placed on the numberline.	6.NS.C.6c
2	Plot the number 3.2 on a number line from 3 to 4.	Number line drawn between 3 and 4. 3.2 correctly placed on the numberline.	6.NS.C.6c
3	Order the following numbers from greatest to least on a number line: 4.1, 4 and 3.9.	Number line drawn from 3.5 to 4.5 with these points in the order 3.9, 4 and 4.1.	6.NS.C.6c
4	Plot $-2.3$ , $-1.5$ , and $-3.8$ on a number line from $-4$ to $0$ .	Number line drawn from $-4$ to $0$ , with $-3.8$ , $-2.3$ and $-1.5$ correctly placed on the number line.	6.NS.C.6c
5	Which point on the number line plots 8.4?	C	6.NS.C.6c
6	What is the point on the number line?	8.6	6.NS.C.6c
7	What is the point on the number line?	2.5	6.NS.C.6c

## Decimal Number Lines Worksheet | Grades 6 to 8 | Answers

Question number	Question	Answers	Standard
8	What is the point on the number line?	3.5	6.NS.C.6c
9	Which point on the number line plots 7.9?	B	6.NS.C.6c
10	Label the points on the number line.	7.4, 8.2 and 8.4	6.NS.C.6c
11	Draw a number line that represents 3 to 4 and then locate the value pi. Explain how you determined the location.	Number line from 3 to 4 with 3.14 identified. Explanations may vary.	6.NS.C.6c
12	The fractions $\frac{3}{8}$ and $\frac{27}{40}$ are plotted on a number line from 0 to 1. Without converting the fractions to decimals, explain which decimal each fraction is closest to, and why.	$\frac{3}{8}$ is approximately 0.4 $\frac{27}{40}$ is approximately 0.7 You can decide by dividing and then rounding.	6.NS.C.6c
13	A roller coaster descends 9.85 meters in its first drop. It then ascends 4.325 meters along the track before making another descent. Plot and label these elevations on a number line from 0 meters to 10 meters.	A number line from 0 to 10 with 9.85 and 4.325 approximated.	6.NS.C.6c
14	Plot the following numbers on a number line from 0 to 2: 1.25, 1.75, 0.5, 1.6, then order the numbers from least to greatest.	Number line from 0 to 2 with 0.5, 1.25, 1.6 and 1.75 plotted.	6.NS.C.6c

## Decimal Number Lines Worksheet | Grades 6 to 8 | Answers




Question number	Question	Answers	Standard
15	What is the smallest number you can plot halfway between 3.5 and 4 on a number line?	The smallest number that can be plotted halfway between 3.5 and 4 is 3.75.	6.NS.C.6c

## Do you have a group of students who need a boost in math?

Each student could receive a personalized lesson every week from our specialist one-on-one math tutors.

- ✓ Differentiated instruction for each student
- ✓ Aligned to your state's standard
- ✓ Scaffolded learning to close gaps

## Speak to us

-  [thirdspacelearning.com/us/](https://thirdspacelearning.com/us/)
-  +1 929-298-4593
-  [hello@thirdspacelearning.com](mailto:hello@thirdspacelearning.com)



**THIRD SPACE**  
LEARNING