

Math 7 Test
SOL 7.1e—Absolute Value

Name: _____

1. Circle all correct number statements.

$ -8 = -8$	$\frac{1}{2} = -\frac{1}{2} $	$\frac{4}{3} = -\frac{3}{4} $
$ -42 = 42$	$-7 = - -7 $	$ 24 = -24$

2. Find the difference for the following. Show work below each problem.

a) $|-10|$ and $|8|$ _____ b) $|-10 - 8|$ _____ c) $|-8|$ and $|10|$ _____

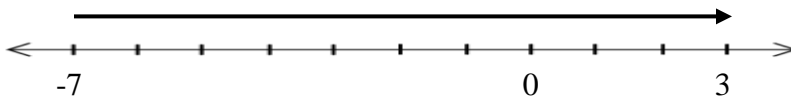
d) $|-10|$ and $|-8|$ _____ d) $|8 - 10|$ _____ f) $|-10 - (-8)|$ _____

3. Which letter has the greatest absolute value on the number line below? _____



Explain your answer. _____

4. Write an equation using absolute value symbols to represent the distance between the values indicated on the number line



The table below presents the boiling points of four substances. Use the information to answer questions 5 – 8.



Substance	Hydrogen	Oxygen	Iodine	Phosphorus
Boiling Point $^{\circ}\text{C}$	-253	-183	184	280

5. The boiling point of which substance is closest to 0°C ? _____

6. Explain your answer. _____

7. Which substance has the highest boiling point? _____

8. Explain your answer. _____

**Math SOL 7.1e—Absolute Value
Answer Key**

1. $42, \frac{1}{2}, -7$
2. a) 2 b) 18 c) -2 d) 2 e) 2 f) 2
3. M; answers may vary.
4. $|-7 - 3| = 10$
5. Oxygen
6. Answers may vary.
7. Phosphorous
8. Answers may vary.