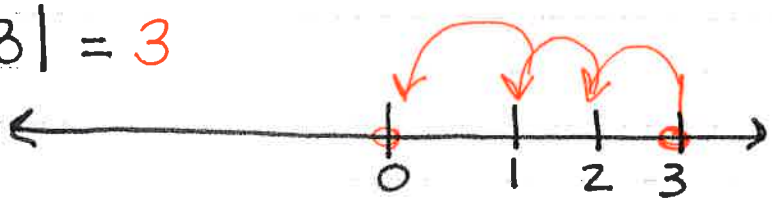
Ch. 6.4 Notes

Vocab **absolute value**: always positive

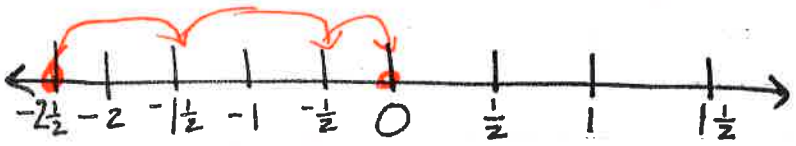
Opposite can be (−) or (+)

Ex 1 Find the absolute value of...

a) $|3| = 3$



b) $|-2\frac{1}{2}| = 2\frac{1}{2}$



① $|8| = 8$

② $|-6| = 6$

③ $|0| = 0$

④ $|\frac{1}{4}| = \frac{1}{4}$

⑤ $|-7\frac{1}{3}| = 7\frac{1}{3}$

⑤ $|-12.9| = 12.9$

Name _____ Date _____

6.4 Practice A

Use a vertical number line to graph the location of each object. Then tell which object is farther from sea level.

1. Manatee: -2 m
   Flounder: -13 m

2. Snapper: -8 m
   Osprey: 7 m

Find the absolute value. (always positive)

3. $|-4|$

4. $|-1|$

5. $|5.2|$

6. $|-12|$

7. $\left|2\frac{1}{3}\right|$

8. $|-51|$

Copy and complete the statement using <, >, or =. ① Rewrite each # ② Compare

13. $|-6|$? 4

14. 10 ? $|-10|$

15. $|-4.5|$? $|-5.2|$

16. $\left|\frac{2}{3}\right|$? $\left|-\frac{1}{6}\right|$

17. In a sailboat race series, a boat's score indicates the number of points it is behind the winning boat. Your boat has score -18 and your friend's boat has score -23.

    a. Find the absolute value score of each boat.

    b. Whose boat is farther behind the winning boat?

Order the values from least to greatest. Rewrite them. Put them in order

18. $0, |-3|, 1, -2, |5|$

19. $|3|, |-1|, -3, |-5|, -5$