

Chapter 5 Quiz 1 Practice

Write an integer for each situation. Explain the meaning of zero in each situation

1. Earn 15 points

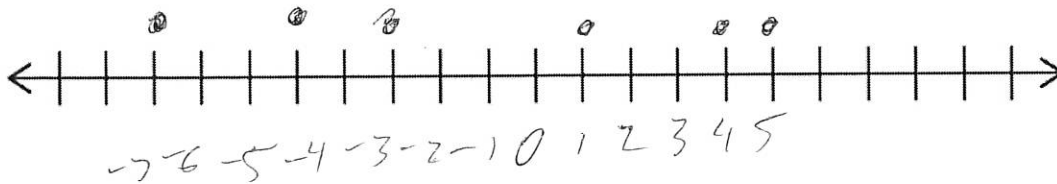
$$+15$$

2. Reduced by 8 inches

$$-8$$

3. Graph the set of integers on the number line. Label the points

$$\{-4, -3, 1, 5, 4, -7\}$$



Evaluate each expression

4. $|31| + |-5|$

$$31 + 5 = 36$$

5. $|-28| - |-1|$

$$28 - 1 = 27$$

6. $|-101| - |-1|$

$$101 - 1 = 100$$

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The table shows how several roller coasters compare to the Mantis in terms of the lift heights and the vertical drop.

Roller Coaster	Lift Heights (ft)	Vertical Drop (ft)
Gemini	-20	-19
Magnum XL-200	60	58
Top Thrill Dragster	275	263
Mantis	0	0
Millenium Force	165	163
Mean Streak	16	18
Raptor	-8	-18

7. Which roller coaster has the lowest lift height?

Gemini

8. Which roller coaster has the highest vertical drop?

Top Thrill Dragster

9. What is the difference in feet between the lift heights of Mean Streak roller coaster and the lift height of the Gemini roller coaster?

$$16 - (-20) = 16 + 20 = 36 \text{ ft}$$

10. What difference in feet between the lowest and the highest lift heights?
(How many feet is there between the lowest and the highest vertical drops?)

$$263 - (-20) = 283 \text{ ft}$$