



Lesson 1

Integers and Graphing

Guided Practice

Write an integer for each situation. Explain the meaning of zero in each situation. (Examples 1–3)

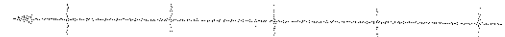
- 15-yard gain _____
- loss of 2 hours _____

Graph each integer or set of integers on a number line. (Examples 4–6)

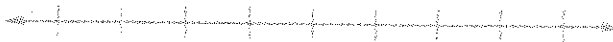
3. -2



4. $\{-1, 1, 0\}$



- The data set $\{+5, 0, -15, +20\}$ shows the number of points Delaney scored on each hand of a card game. Graph the scores. Explain the meaning of zero in this situation. (Example 7)



Independent Practice

Write an integer for each situation. Explain the meaning of zero in each situation. (Examples 1–3)

- 3 miles below sea level _____
- earning \$45 _____
- moving back 5 spaces on a game board _____

Graph each integer or set of integers on a number line. (Examples 4–6)

4. -5



$\{2, -3, 0, 1\}$



6. The data set $\{+4, -1, -2, 0\}$ shows a change in number of state representatives for four states after the last census. Graph the change in number of representatives. Explain the meaning of zero in this situation. (Example 7)



7. **Use Math Tools** The table shows the record low temperatures for several states. Graph the temperatures on a number line.

| Record Low Temperature by State ($^{\circ}\text{F}$) | | | | |
|--|-----|-----|-----|-----|
| AL | AK | CT | NJ | VA |
| -27 | -29 | -32 | -34 | -30 |



Extra Practice

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

15. spending \$25

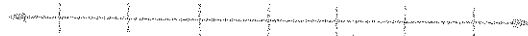
16. 13-yard gain

Graph each integer or set of integers on a number line.

17. -8



18. $\{0, -3, 1, -1\}$



19. $\{-1, 1, -2\}$



20. $\{3, -5, 4, -1\}$



21. $\{4, -2, 2\}$



23. **Model with Mathematics** The table shows the overnight low temperatures for 5 days in Minneapolis. Graph the temperatures on a number line.

| Overnight Low Temperatures ($^{\circ}\text{F}$) | | | | |
|---|----|---|----|---|
| 1 | -1 | 3 | -6 | 0 |

