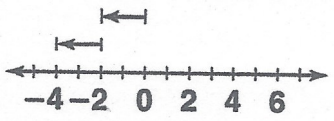
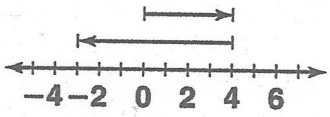
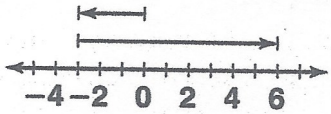
7-Unit 2.2 (10)

Write the addition expression that is suggested by each model.

1. 

2. 

3. 

Write an algebraic expression to find the sum for each situation.

4. The varsity football team gained 7 yd on one play and then lost 4 yd. _____

5. The airplane descended 140 ft and then rose 112 ft. _____

6. The squirrel climbed 18 in. up a tree, slipped back 4 in., and then climbed up 12 in. more. _____

7. The temperature was 72°F at noon. At midnight a cold front moved in, dropping the temperature 12°F. _____

Simplify each expression.

8. $8 + (7)$ _____
9. $9 + (-4)$ _____
10. $-6 + (-8)$ _____
11. $9 + (-17)$ _____
12. $-15 + (-11)$ _____
13. $-23 + 18$ _____
14. $27 + 34$ _____
15. $-8 + (-17)$ _____
16. $19 + (-8)$ _____
17. $-14 - 33$ _____
18. $-32 - (-18)$ _____
19. $-15 - (-26)$ _____
20. $-19 - (-12)$ _____
21. $-16 - (-21)$ _____
22. $27 - 19$ _____

Write *always*, *never*, or *sometimes* to complete each statement.

1. The sum of a positive integer and 0 is _____ positive.
2. The sum of two negative integers is _____ negative.
3. The product of 0 and a positive integer is _____ 0.
4. The sum of a positive and a negative integer is _____ positive.
5. The sum of 0 and a negative integer is _____ positive.
6. The quotient of an integer and its opposite is _____ positive.
7. The quotient of a positive integer and a negative integer is _____ negative.
8. Zero minus a positive integer is _____ negative.
9. The product of a positive integer and a negative integer is _____ positive.
10. The difference of two negative integers is _____ positive.
11. The product of two negative integers is _____ positive.
12. The difference of two negative integers is _____ negative.
13. The product of three negative integers is _____ positive.
14. For each statement that you wrote *sometimes*, give an example to support your answer.