

Sixth Grade: Activity 13 Practice

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Lesson 13-1

1. let x = Lee's age
 $\text{Lee's age} + 32 = 67$
 $x + 32 = 67$
 $x = 35$
 $35 + 32 = 67$; $67 = 67$
2. let x = length of other piece
 $\text{length of other piece} + 9 = 24$
 $x + 9 = 24$
 $x = 15$
 $15 + 9 = 24$; $24 = 24$
3. let x = height of Mt. Hood
 $\text{height of Mt. Hood} + 9,081 = 20,320$
 $x + 9,081 = 20,320$
 $x = 11,239$
 $11,239 + 9,081 = 20,320$;
 $20,320 = 20,320$
4. let x = pairs of shoes
 $\text{pairs of shoes} + 3 = 11$
 $x + 3 = 11$
 $x = 8$
 $8 + 3 = 11$; $11 = 11$
5. $x = 15$
6. $a = 7$
7. $b = 4$
8. $y = 71$
9. $x = 469$

Lesson 13-2

10. let x = sister's earnings
 $x + 2.50 = 12.75$
 $x = 10.25$
 $10.25 + 2.50 = 12.75$;
 $12.75 = 12.75$
11. let x = enrollment at Texas A & M
 $x + 11,245 = 51,112$
 $x = 39,867$
 $39,867 + 11,245 = 51,112$;
 $51,112 = 51,112$
12. let x = people who entered after first hour
 $x + 2,120 = 8,596$
 $x = 6,476$
 $6,476 + 2,120 = 8,596$;
 $8,596 = 8,596$
13. Answers will vary.
14. Answers will vary.
15. $a = 28$
16. $y = 9.76$
17. $x = \frac{1}{12}$

Lesson 13-3

18. let x = miles of rafting trip
miles of rafting trip $- 12 = 16$
 $x - 12 = 16$
 $x = 28$
 $28 - 12 = 16; 16 = 16$
19. let x = length of hike
length of hike $- 2.1 = 4.5$
 $x - 2.1 = 4.5$
 $x = 6.6$
 $6.6 - 2.1 = 4.5; 4.5 = 4.5$
20. let x = number of holiday decorations
number of holiday decorations $- 36 = 97$
 $x - 36 = 97$
 $x = 133$
 $133 - 36 = 97; 97 = 97$
21. let x = number of people in band
number of people in band $- 7 = 51$
 $x - 7 = 51$
 $x = 58$
 $58 - 7 = 51; 51 = 51$
22. $x = 14$
23. $a = 18$
24. $b = 35$
25. $c = 30$

Lesson 13-4

26. let x = length of scarf
 $x - 10 = 38$
 $x = 48$
 $48 - 10 = 38; 38 = 38$
27. let x = number of train stops
 $x - 11 = 23$
 $x = 34$
 $34 - 11 = 23; 23 = 23$
28. let x = attendance at start of game
 $x - 2,500 = 6,700$
 $x = 9,200$
 $9,200 - 2,500 = 6,700;$
 $6,700 = 6,700$
29. Answers will vary.
30. Answers will vary.
31. A
32. D
33. Answers will vary. Look for students to describe using inverse operations to solve equations.