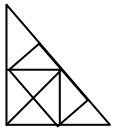
Lesson 1.1

Homework Answers

p. 6 #1-12, 17, 19-22, 25-29, 31- 33, 36, 44, 52, 54

1. 80, 160
2. 33,333; 333,333
3. -3, 4
4. $\frac{1}{16}, \frac{1}{32}$
5. 3, 0
6. $1, \frac{1}{3}$
7. N, T
8. J, J
9. 720, 5040
10. 64, 128
11. $\frac{1}{36}, \frac{1}{49}$
12. $\frac{1}{5}, \frac{1}{6}$
17. 
19. The sum of the 1st 6 positive even #'s $6 \cdot 7$ or 42.
20. The sum of the 1st 30 positive even #'s is $30 \cdot 31$, or 930.
21. The sum of the 1st 100 positive even #'s is $100 \cdot 101$, or 10,100.
22. The sum of the 1st 100 odd numbers is 100^2, or 10,000.

#25-28 answers may vary, examples:

25. $8 + (-5) = 3$, *and* $3 < 8$
26. $\frac{1}{3} \cdot 6 = 2$ *and* $\frac{1}{3} < 2$
27. (-6) - (-4) = -2 *and* -2 > -4
28. $\frac{1}{2} \div \frac{1}{3} = \frac{3}{2}$ *and* $\frac{3}{2}$ is improper
29. 75°F
31. 31, 43
32. 10, 13
33. 0.0001, 0.00001
36. $\frac{31}{32}, \frac{63}{64}$
44. 
52. 21, 34, 55
54. $100 + 99 + 98 + \ldots + 3 + 2 + 1$

$\underline{1} + \underline{2} + \underline{3} + \ldots + \underline{98} + \underline{99} + \underline{100}$

$101 + 101 + 101 + \ldots + 101 + 101 + 101$

The sum of the 1st 100 #s is $\frac{100 \cdot 101}{2}$ or 5050.

The sum of the 1st n #s is $\frac{n(n+1)}{2}$.