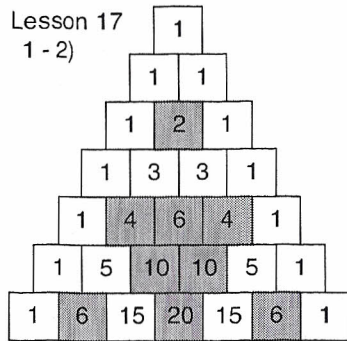
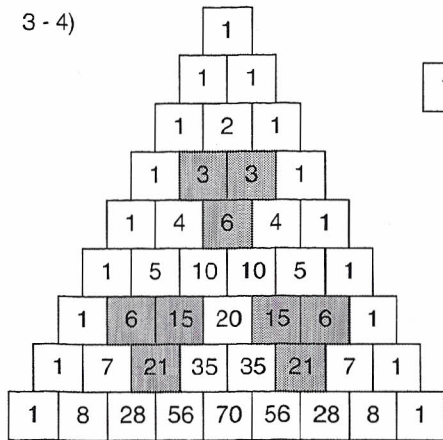




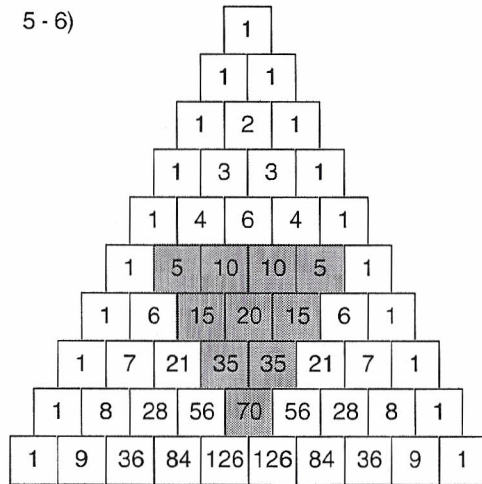
Lesson 17  
1 - 2)



3 - 4)



5 - 6)



- 7)  $1 + 4 + 10 = 15$
- 8) Answers will vary, but the sum of the numbers in the "handle" of the "hockey stick" will always equal the number in the smaller rectangle.

Lesson 18

- 1)  $M + (M - 11) = 21$   
 $2M - 11 = 21$   
 $2M = 32$   
 $M = \$16$  for the meal  
 $16 - 11 = \$5.00$  for the dessert
- 2)  $6 - 7 + 3 - 4 = -2$  mi east, or 2 miles west. The answer should not be written as a negative number, because it is a distance, and distance is always positive.
- 3)  $X + (X - 200) = 300$   
 $2X - 200 = 300$   
 $2X = 500$   
 $X = 250$   
 Isaac has \$250
- 4) Let  $J$  = the number of dollars John earned  
 $J + (J - 18) = 60 - 3.50$   
 $2J - 18 = 56.50$   
 $2J = 74.50$   
 $J = \$37.25$
- 5) In a square, the perimeter is 4 times the length of one side, so:  
 $S = (S + 57) \div 4$   
 $4S = S + 57$   
 $3S = 57$   
 $S = 19$
- 6) Distance is always positive, so he should have reported the distance as 20 ft.

- 7)  $P = W + W + L + L$   
 $52 = W + W + 20 + 20$   
 $52 = 2W + 40$   
 $12 = 2W$   
 $W = 6$  ft.

- 8) using fractions:  

$$\left(N \times \frac{9}{5}\right) + 32 = (N - 32) \times \frac{5}{9}$$

$$45 \left(N \times \frac{9}{5}\right) + 45(32) = (N - 32) \times \frac{5}{9}(45)$$

$$81N + 1,440 = (N - 32) \times 25$$

$$81N + 1,440 = 25N - 800$$

$$56N = -800 - 1,440$$

$$56N = -2,240$$

$$N = -40^\circ$$
- using decimals:  
 $1.8N + 32 = (N - 32) \times .56$  (rounded)  
 $1.8N + 32 = .56N - 17.92$   
 $1.8N - .56N = -17.92 - 32$   
 $1.24N = -49.92$   
 $124N = -4992$   
 $N = -40.25^\circ$   
 (In this case, the fractions give the exact value, and the decimals give an approximate value because of the rounding.)