1.	If x	is a p	ositive	integer,	and	x + 12 =	x^2 ,	what is	the val	lue of	x?

- (A) 2
- (B) 4
- (C) 6
- (D) 8
- (E) 12

2. If twice the sum of three consecutive numbers is 12, and the two lowest numbers add up to 3, what is the highest number?

- (A) 2
- (B) 3
- (C) 6
- (D) 9
- (E) 12

3. If
$$2^x = 8^{(x-4)}$$
, then $x =$

- (A) 4
- (B) 6
- (C) 8
- (D) 9
- (E) 64

4. If Jane bought 3 equally priced shirts on sale, she would have 2 dollars left over. If instead she bought 10 equally priced pairs of socks, she would have 7 dollars left over. If the prices of both shirts and socks are integers, which of the following, in dollars, could be the amount that Jane has to spend?

- (A) 28
- (B) 32
- (C) 47
- (D) 57
- (E) 60

5. During a vacation together, Bob spent twice as much as Josh, who spent four times as much as Ralph. If Bob and Ralph together spent \$180, how much did Josh spend?

- (A) \$20
- (B) \$80
- (C) \$120
- (D) \$160
- (E) \$180

6. Tina has half as many marbles as Louise. If Louise gave away 3 of her marbles and lost 2 more, she would have 1 more marble than Tina. How many marbles does Tina have?

- (A) 2
- (B) 3
- (C) 5
- (D) 6
- (E) 7

7. In a bag of jellybeans, $\frac{1}{3}$ are cherry and $\frac{1}{4}$ are licorice. If the remaining 20 jellybeans are orange, how many jellybeans are in the bag?

- (A) 12
- (B) 16
- (C) 32
- (D) 36
- (E) 48