

**Palomar College Math Placement Test Study Guide  
Prealgebra**

**Topic 1: Operations with Whole Numbers**

1.  $74 \times 47 =$
2.  $419 + 58 + 3712 =$
3.  $4306 - 3968 =$
4.  $14562 \div 9 =$
5.  $18 + 6(9 - 5)^2 \div 8 =$
6.  $8 \cdot 5 + 18 \div (8 - (3 + 2))$
7. Find all the factors of 60.
8. Find the prime factorization of 84.
9. The maximum weight an old elevator can hold is 700 lb. If four people weighing 127 lb, 196 lb, 117 lb and 166 lb respectively are already on the elevator, and a person weighing 143 lb wants to get on the elevator, will the elevator hold all five people?
10. The odometer on your car now reads 56,921. Last year at this time it read 37,548 miles. Which of the following best estimates the number of miles your car was driven during the last year?
  - a. 2000
  - b. 20000
  - c. 90000
  - d. 94000

**Answers are on the next page.**

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**Answers:**

1. 3478
2. 4189
3. 338
4. 1618
5. 30
6. 46
7. 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60
8.  $2 \cdot 2 \cdot 3 \cdot 7$
9. The elevator will not hold all five people.
10. (b)