Thinkwell's Placement Test 1 Answer Key

If you answered 7 or more Test 1 questions correctly, we recommend Thinkwell's Homeschool 6th Grade Math.

1. Answer: A. 37
Explanation
The inequality symbol > means "greater than." To make the statement 40 > ____ true, 40 must be greater than the chosen number. To compare 40 and 37, compare the tens digit since the numbers have the same number of digits. The tens digit in 40 is 4 and the tens digit in 37 is 3. Since 4 is more than 3, 40 is greater than 37. Thus, the statement 40 > 37 is true.

2. Answer: 310
Explanation
Round the subtrahend and the minuend to the nearest ten. 834 ≈ 830 and 521 ≈ 520
Subtract the rounded numbers. 830 – 520 = 310

3. Answer: There are a total of 82 trips.
Explanation
Add the numbers given in the 2nd column, titled "Number of Trips." 4 + 6 + 29 + 5 + 25 + 13 = 82

4. Answer: 300,465
Explanation
Multiply 495 by 607.

```
     607
   × 495
    3035
   54630
  242800
  300465
```

5. Answer: 42, 49
Explanation
The first four numbers in the sequence follow the pattern "each term is 7 greater than the previous term" or "counting by sevens." Therefore, the term after 35 will be 7 greater than 35, or 42. And, the term after 42 will be 7 greater than 42, or 49.

6. Answer: 1,200 miles
Explanation
Find the number of days that Max will drive. 4 weeks = 4 × 7 = 28 days
Max will drive 42 miles each day for 28 days. To find the total number of miles that Max will drive, multiply the number of miles per day by the number of days. 42 × 28
Round each number to the nearest ten. 42 ≈ 40 and 28 ≈ 30
Find the product. 40 × 30 = 1,200
Max will drive approximately 1,200 miles in 4 weeks.

7. Answer: 32,485 pounds
Explanation
There are 365 days in 1 year. Multiply the number of pounds of food fed per day, 89, by the number of days in 1 year, 365.
```
    365
   × 89
   3285
  29200
  32485
```
Therefore, the lions will be fed 32,485 pounds of food in 1 year.

8. **Answer: 384**

Explanation

Use long division to divide 23,808 by 62.

```
        384
  62) 23808
     −186
       520
      −496
        248
       −248
          0
```

9. **Answer: 29 rolls**

Explanation

Use long division to divide 1020 by 36.

```
        28
  36) 1020
     −72
       300
      −288
        12
```

So the quotient of 36 and 1020 is 28 with a remainder of 12. This quotient indicates that 28 rolls of wallpaper will cover 1008 square feet ($28 \times 36 = 1008$), leaving 12 square feet remaining. One additional roll of wallpaper must be purchased to cover the remaining 12 square feet. Therefore, 29 rolls of wallpaper should be purchased to cover 1020 square feet.

10. **Answer: 18 + 20**

Explanation

The word "sum" indicates that the operation is addition. So, write the numbers 18 and 20 with addition as an expression.   18 + 20