Number Systems (EOG REVIEW)

**NO CALCULATOR**

1. AJ has 415 in his wallet. He wants to buy 6 lollipops, 4 Snickers, and 1 bag of skittles from Target.

Item Price

Lollipop $0.30

Snickers $1.40

Skittles $1.95

1. What is the value of 276 x 103?
2. Joe rents a car from A Car Rental and there is a $40 gas charge and a $0.10 per mile fee. B Car Rental charges $30 gas charge and a $0.15 per mile fee. If Joe travels 50 miles, which plan is less expensive and by how much?

A. A Car Rental by $7.50 C. B Car Rental by $7.50

B. A Care Rental by $10 D. B Car Rental by $10

1. 8 + 4 x 32 + 7 – 2 x 6
2. Sue drinks about 2.3 liters of tea a week. ***About*** how many liters will she drink in 12 days?
3. Grapes are on sale for $0.79 per pound, including tax, Isaiah bought 2.6 pounds of grapes. How much did he spend?
4. Kevin bought 3 apples and 2 oranges and he spent $4.80. Oranges are $0.75 each. If there is no sales tax, how much did the apples cost?
5. Joseph has 3 feet of wood. He will make ½ foot shelves. What is the greatest number of shelves Joseph can make?
6. A division problem is below. What digit should be replaced in the box to make this division problem true?

1 0 5 7 R 12

8 8 4 6

1. a3 + b2 when a = 3 b = 4
2. Meryl has 6 of ribbon. She needs each ribbon to be ¼ foot to make a bow. How many bows can she make?
3. Francisco has 5 foot of twine. What is the greatest number of foot pieces can he cut from the twine?
4. A piece of land measuring 3 ¾ acres is divided equally among five people. How many acres will each person receive?
5. A rectangular swimming pool has an area of 1.840 square feet. The length of the pool is 12 feet. What is the width of the pool?
6. What is the value of the expression?

- +

1. Chloe wants to make a batch of cookies with a recipe that requires 1 cups of sugar. She has 4 cups of sugar in her cabinet. What is the maximum number of batches of cookies she can make?

**CALCULATOR ACTIVE**

1. A four digit number is divided by 4 and has a remainder of 2. The first three digits are 625. What is the fourth digit of the number?
2. What is the value 27
3. Ardrey Kell High School students were asked if they planned to attend college. There are 560 high school students who are going to college. This number represents 40% of the entire student population. How many high school students attend Ardrey Kell High School?
4. If 35% of a number, x, is 25.75, what is 22% of x?
5. Andre has container with 72 video games. He gives his brother 25% of his games. How many games did he give his brother.
6. Cheesecake Factory makes 620 cheesecakes every week.

-The cheesecakes are put into a box.

-A large box contains 18 cheesecakes and a small box contains 10 cheesecakes.

-Cheesecake Factory fills as many large and small boxes and possible.

How many small boxes does the bakery fill in one week?

1. 240 seventh-graders were given a survey. It showed that 64 students liked to wear Vans. What percent of the students like to wear Vans.
2. A middle school student answered 75% of the questions of his Science homework. He answered 40 questions. How many questions were on his assignment?
3. The table below shows the cost of a pair of jeans.

|  |  |
| --- | --- |
| Discount (Percent) | Cost |
| 10% | 56 |
| 20% | 52 |
| 30% | 48 |

What is the original price of the jeans?