1. A girl bought a dog for $10, sold it for $15, bought it back for $20, and finally sold it for $25. Did the girl make or lose money, and how much did she make or lose?

_____ _____

School Answer

9. The sum of the weight of Tom and Bill is 138 pounds and one boy is 34 pounds heavier than the other. How much does the heavier boy weigh?

_____ _____

School Answer

2. A set of marbles can be divided in equal shares among 2, 3, 4, 5, or 6 children with no marbles left over. What is the least number of marbles that the set could have?

School

Answer

10. I have exactly ten coins whose total value is $1. If three of the coins are quarters, what are the remaining coins?

School

Answer

3. A train is moving at the rate of 1 mile in 1 minute and 20 seconds. If the train continues at this rate, how far will it travel in one hour?

School

Answer

11. A chime clock strikes 1 chime at one o'clock, 2 chimes at two o'clock, 3 chimes at three o'clock, and so forth. What is the total number of chimes the clock will strike in a twelve-hour period?

School

Answer

4. The product of two numbers is 144 and their difference is 10. What is the sum of the two numbers?

School

Answer

12. The four-digit numeral 3AA1 is divisible by 9. What digit does A represent?

School

Answer

5. The average of five weights is 13 grams. This set of five weights is then increased by another weight of 7 grams. What is the average of the six weights?

School

Answer

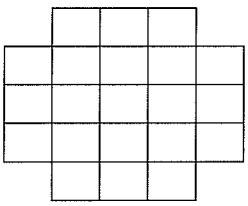
13. Suppose all the counting numbers are arranged in columns as shown below. Under what column-letter will 1000 appear?

A	B	C	D	E	F	G
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	-----	-----

School

Answer

6. Each of the boxes in the figure below is a square. How many different squares can be traced using the lines in the figure?



School

Answer

14. A woman spent two-thirds of her money. She lost two-thirds of the remainder and then had $4 left. With how much money did she start?

School

Answer

7. Glen, Harry, and Kim each have a different favorite sport among tennis, baseball, and soccer. Glen does not like baseball or soccer. Harry does not like baseball. Name the favorite sport of each person.

School

Answer

15. In a group of 30 high school students, 8 take French, 12 take Spanish and 3 take both languages. How many students of the group take neither French nor Spanish?

School

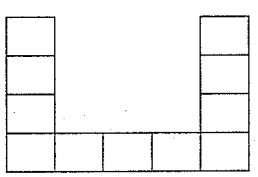
Answer

8. P and Q represent numbers, and P*Q means $\frac{P+Q}{2}$. What is the value of 3*(6*8)?

School

Answer

16. The U-shaped figure below contains 11 squares of the same size. The area of the U-shaped figure is 176 square inches. How many inches are in the perimeter of the U-shaped figure?



School

Answer

Ciphering Answers

1. made 10
2. 60
3. 45
4. 26
5. 12
6. 38
7. Glen Tennis, Harry Soccer, Kim Baseball
8. 5
9. 86
10. 2 dimes and 5 pennies
11. 78
12. 7
13. F
14. 36
15. 13
16. 96

Tiebreakers