Name: .... Class: ....

Guess- and- check word problems

1. Belinda made two different types of 5 cakes. Each red velvet cake gave 10 slices and each vanilla cake gave 5 slices. If she made a total of 40 slices, How many slices of each type of cake did she make?

2. Basil retails paints at a very good rate in various sizes of sealed buckets. Amongst these buckets, some hold 20 liters of paint, and some hold 25 liters of paint. Mr. James bought 6 buckets which holds a total of 130 litres. How many of each type of bucket did he buy?

3. Petra has 16 cans of Pepsi and Coca-Cola in all. If she has 6 more cans of Pepsi than Coca-Cola, how many cans of each type of drink does she have?

4. While doing window shopping in the mall, Christine finally spent $30 on toys for her kids. She bought a toy car for $2, an adorable teddy bear for $10 and a beautiful doll for $5. If she bought 8 toys in all, how many of each type of toy did she buy?

5. Jerry works in a pizza hurt. Every day, they make 20 pizzas. There always make 12 slices of peperoni pizza, 9 slices of cheese pizza and 6 slices of mushroom pizza. If Last week they made 165 slices of pizza in all, how many of each type of pizza did they make?

6. If Mat is 10 years younger than Jack and Jack is 5 years younger than Luke, find the age of each person if their ages add up 40 years in all.

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Guess- and- check word problems

1. use guess- and- check to solve the problem
Guess pairs of numbers that sum up to 5
Guess 1: 4 red velvet cakes and 1 vanilla cake
4 + 1 = 5 cakes
Now, find the total number of slices of each type of cake.
red velvet = 4 x 10 = 40 slices
vanilla = 1 x 5 = 5 slices
Therefore, total number of slices = 40 + 5 = 45 slices
So the guess is not correct since it has added up to 45 slices instead of 40 slices.
⟶ Try another guess
Guess 2 : 3 red velvet cakes and 2 vanilla cakes
 3 + 2 = 5 cakes
Now, find the total number of slices of each type of cake.
red velvet = 3 x 10 = 30 slices
vanilla = 2 x 5 = 10 slices
Therefore, total number of slices = 30 + 10 = 40 slices.
So the guess is correct. Belinda made 30 slices of red velvet cake and 20 slices of vanilla cake

2. Mr. James bought four 20 liters and two 25 liters bucket of paint.

3. She has 14 cans of Pepsi and 2 cans of Coca-Cola

4. She bought 5 car toys, 1 teddy bear, and 2 dolls

5. They made 5 peperoni pizzas, 5 cheese pizzas and 10 mushroom pizzas

6. Luke is 20 years, Jack is 15 years, and Mat is 5 years