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 liters. How many of each type of bucket did he buy?

3. 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 90 slices of pizza in all, how many of each type of pizza did they make?

4. Yesterday, Lucy sold a total of 13 cupcakes. She sold red velvet cupcakes for $9 and normal cupcakes for $5. If at the end of her sales she made $93 in all, how many of each type of cupcake did she sell?

5. Today, Jude bought 60 pears and shared it amongst his three sisters Gianna, Luna and Sofia. Luna got 4 more pears than Gianna and Sofia got 16 more pears than Gianna. How many pears did each person get?

6. The height of a triangle is 3 feet shorter than the base while the length of the triangle is 5 feet longer than the height. If the perimeter of the triangle is 32 feet, what are the base, height and length of the triangle?

7. The product of three numbers is 3,750. The second number is 5 less than the first number and the last number is 10 more than the first number. Find the three numbers.

8. Two months ago, Miss Rose picked 24 flowers from her garden. She picked four more red roses than white roses. How many of each color of rose flower did she pick?

MP

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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?

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. 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 liters. How many of each type of bucket did he buy?

guess: four 20 liters bucket + two 25 liters bucket = 4 + 2 = 6 buckets of paint.
Now, find the total number of liters of each type of bucket.
20 liters bucket = 4 x 20 = 80 liters.
25 liters bucket = 2 x 25 = 50 liters.
therefore, the total number of liters = 130 liters.
So, the guess is correct.
Mr. James bought four 20 liters and two 25 liters bucket of paint.