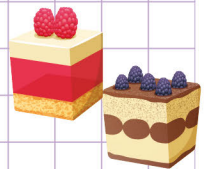


Name: Class:

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?



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?

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

$$4 + 1 = 5 \text{ cakes}$$

Now, find the total number of slices of each type of cake.

$$\text{red velvet} = 4 \times 10 = 40 \text{ slices}$$

$$\text{vanilla} = 1 \times 5 = 5 \text{ slices}$$

$$\text{Therefore, total number of slices} = 40 + 5 = 45 \text{ slices}$$

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

$$3 + 2 = 5 \text{ cakes}$$

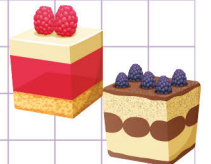
Now, find the total number of slices of each type of cake.

$$\text{red velvet} = 3 \times 10 = 30 \text{ slices}$$

$$\text{vanilla} = 2 \times 5 = 10 \text{ slices}$$

$$\text{Therefore, total number of slices} = 30 + 10 = 40 \text{ slices.}$$

So the guess is correct. Belinda made 30 slices of red velvet cake and 10 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 litres. 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.

$$20 \text{ liters bucket} = 4 \times 20 = 80 \text{ liters}$$

$$25 \text{ liters bucket} = 2 \times 25 = 50 \text{ liters}$$

$$\text{therefore, the total number of liters} = 130 \text{ liters}$$

So, the guess is correct.

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

