

Grade 5**Problem №1**

Mrs. Bennett bought two packets of Easter eggs to hide in the garden for her 4 children to find. Each packet contained 20 eggs. While she was hiding them, the dog ate 4 eggs, her husband ate 3, and she accidentally dropped and broke one. If all the other eggs were found, and each of her 4 children found the same number of eggs, how many eggs did each child find?

- A) 7 B) 8 C) 9 D) 10 E) 11

Problem №2

I have none of my nephew's favorite biscuits left. My nephew visits me, without fail, at least 3 times a week, though never more than 5 times. On each visit I know he will eat at least 6 biscuits but I won't let him have more than 8. Packets of biscuits can contain as few as 10 biscuits, or as many as 12.

How many packets of biscuits must I buy to make sure I do not run out within the next two weeks?



- A) 10 B) 9 C) 8 D) 7 E) 6

Problem №3

Mr. Jones gave some stickers to every one of his students that came to class on Tuesday. If he gave each student 65 stickers, he would have 60 stickers left. If he gave each student 45 stickers, he would have 780 stickers left. How many students came to Mr. Jones' class on Tuesday?

- A) 33 B) 34 C) 35 D) 36 E) 37

Problem №4

Referring to the figure below, what is the weight of one onion?

$$\text{Tomato} + \text{Onion} = 5 \text{ kg}$$

$$\text{Tomato} + \text{Tomato} + \text{Tomato} + \text{Tomato} + \text{Tomato} + \text{Onion} + \text{Onion} + \text{Onion} = 23 \text{ kg}$$

$$\text{Tomato} + \text{Onion} = 7 \text{ kg}$$

- A) 2 kg B) 3 kg C) 5 kg D) 6 kg E) 1 kg

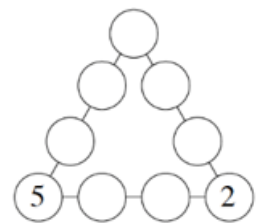
Problem №5

Emma, Jed and Faye are siblings. Emma's age is 5 greater than twice the age of Jed. Faye is 9 years younger than Emma. The sum of their ages is 51. How old is Emma?

- A) 23 B) 25 C) 27 D) 29 E) 31

Problem №6

Sam wants to complete the diagram so that each of the nine circles contains one of the digits from 1 to 9 inclusive and each contains a different digit. The digits in each of the three lines of four circles must have the same total.

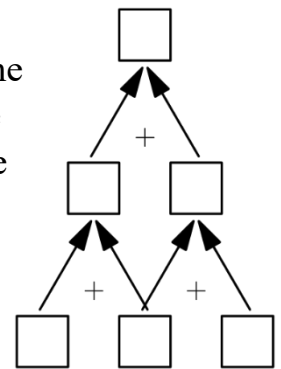


What is this total?

- A) 10 B) 20 C) 30 D) 40 E) 50

Problem №7

Three different one-digit positive whole numbers are placed in the bottom row of cells. Numbers in adjacent cells are added and the sum is placed in the cell above them. In the second row, continue the same process to obtain a number in the top cell. What is the difference between the largest and smallest numbers possible in the top cell?



- A) 23 B) 24 C) 25 D) 26 E) 27

Problem №8

Tom writes down all whole numbers from 1 to 100, including both 1 and 100. Find the digit, 0 through 9, that is written the fewest number of times.

- A) 0 B) 1 C) 2 D) 3 E) 4

Problem №9

How many different three-digit whole numbers can be written using each of the digits 3, 4, and 5 only once?

- A) 3 B) 4 C) 5 D) 6 E) 7

Problem №10

I am thinking of a number between 20 and 100. The sum of the digits is divisible by 8, and when my number is divided by 8 the remainder is 1. What is my number?

- A) 96 B) 97 C) 98 D) 99 E) 93

Problem №11

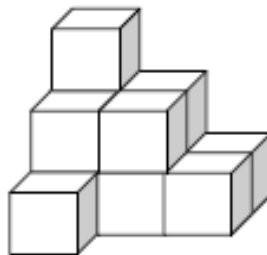
How much would 8 hot dog buns would cost if three hot dog bans cost 12 dollars and 36 cents?



- A) 32,76 B) 33,76 C) 32,86 D) 32,96 E) 33,96

Problem №12

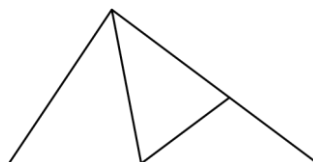
12 cubes have been glued together to form the shape shown. How many faces of these cubes have glue on them?



- A) 33 B) 34 C) 35 D) 36 E) 37

Problem №13

How many triangles are in this figure?



- A) 9 B) 8 C) 7 D) 6 E) 5

Problem №14

Jenny, Kitty, Susan and Helen were born on March 1st, May 17th, July 20th, and March 20th, not necessarily in that order. Kitty and Susan were born in the same month, and Jenny's and Susan's birthdays fall on the same dates in different months. Who was born on May 17th?

- A) Helen B) Kitty C) Susan D) Jenny E) Helen and Ketty

Problem №15.

Five friends, Anita, Gabe, Brian, Chloe, and Tyrell, had dinner one night, celebrating the completion of their running competition. Anita ate more than Gabe. Brian ate less than Chloe. Chloe ate less than Gabe but more than Tyrell.

Which of the friends ate the **second** most?

- A) Anita B) Gabe C) Brian D) Chloe E) Tyrell