



ROMANIAN 10 QUESTIONS FOR INTERNATIONAL MATHS COMPETITION

4-th grade

1. What it was “tomorrow” and will be ”yesterday”?

a) aftertomorrow; b) a week; c) today; d) an year

2. TRUE OR FALSE?

*A minute is the sixtieth part of an hour. True / False

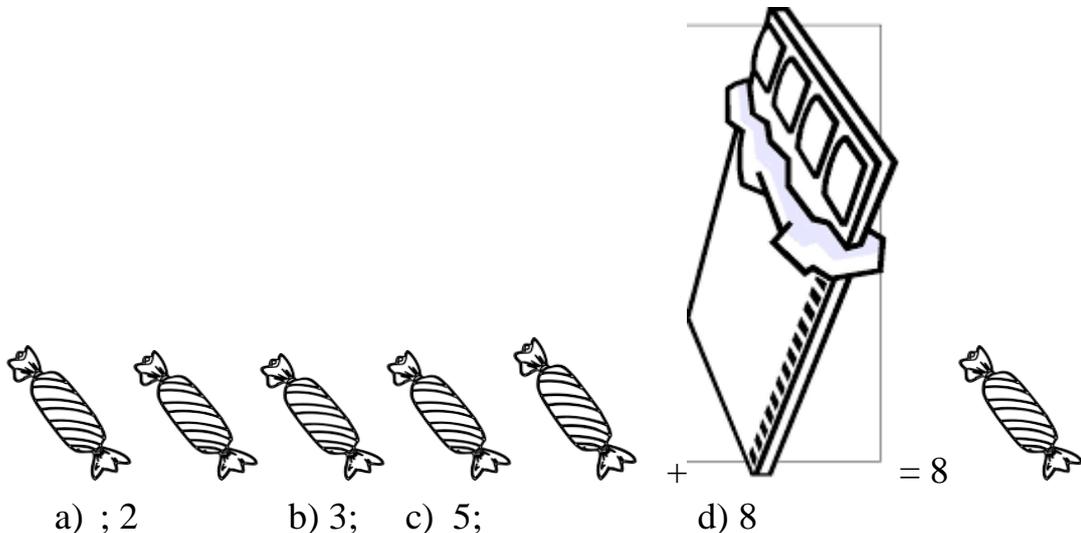
*30 minutes represents $\frac{1}{3}$ of an hour True / False

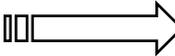
* 15 minutes represents $\frac{1}{4}$ of an hour True / False

* $[10 + 2 \times (3 : 3 + 9 : 3)] : 9 + 2 = 6$ True / False

3. SWEETS

5 candies and a chocolate candy is worth 8 candies. How many candies worth a chocolate?



Answer: 5 candies + 1 Chocolate = 8 candies 
1 Chocolate = 3 candies

4. CATS...

A miller came to mill. In each of the four corners of the room he saw three bags of flour. On each bag were seated three cats and each cat had besides her three kittens. They wonder, how many feet were to mill?

- a) 12; b) 36; c) 2 ; d) 50

Answer: 2 feet, because only the miller has feet, the animals have paws.



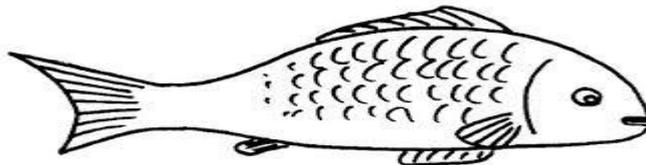
5. Reply how many cats there are in the room, if in each of the four corners of the room there is a cat in front of each cats sit three cats, and each cat tail sits a cat?

- a) 7; b) 16; c) 12 ; d) 14

Answer: 16 cats, because each cat stay on its tail.

6. HOW CARP WEIGHED?

To calculate how much weight a carp who setail has four kilograms. Head as well as tail, and a half of the body and the body as well as head and tail along.



- a) 8; b) 12; c) 16 ; d) 4

Answer: The tail has 4 kilos like the head. The body as well as head + tail = 8 kilos, so the carp will have $4+8+4 = 16$ kilos

7. FAMILY

A boy had so many sisters and brothers. But each sister had brothers twice more than sisters. How many children in total were in the family? How many of them were boys and how many girls?

- a) 4:2 sisters and 2 brothers; b) 5: 3 sisters and 2 brothers;
b) c) 8:4 sisters and 4 brothers; d) 7: 3 sisters and 4 brothers.

Answer: each sister has 2 sisters and 4 brothers, so there are 7 children.



8. CLOVERS

On a field four-leaf clover and clover with 3 sheets grow. In total there are 2810 and 8939 petals. How many four-leaf clover and clover as three sheets grow on the field?

- a) 3201 three leaf clovers and 905 four-leaf clovers;
b) 2301 three leaf clovers and 509 four-leaf clovers;
c) 11749 three leaf clovers and 9839 four-leaf clovers ;
d) 2810 three leaf clovers and 509 four-leaf clovers.

Answer: $2810 \times 4 = 11240$ petals, $11240 - 8939 = 2301$ three leaf clovers,
 $2810 - 2301 = 509$ four-leaf clovers

9. AT THE ZOO

At the Zoo are birds and elephants. In total, 400 heads and 1000 feet. How many birds are at the Zoo? How many elephants live at the Zoo?

- a) 600 birds and 400 animals; b) 400 animals and 600 birds;
c) 100 birds and 300 animals ; d) 300 birds and 100 animals.

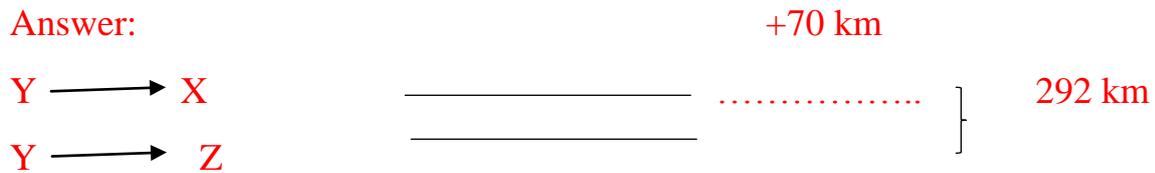
Answer: $400 \times 4 = 1600$ feet, $1600 - 1000 = 600$, $600 : 2 = 300$ birds , $400 - 300 = 100$ animals.

10. THE THREE TOWNS

Three towns X, Y, Z are situated on a road. How long does the road from X to Y and Y to Z knowing that the sum of the distances from the cities of city X and Y Z (Y being between the two cities) is 292 Km, while the distance from Y to Z city is 70 km less than the distance from Y to X city?

- a) Y- Z = 111 km, YX=181 km; b) Y- Z = 292 km, YX=70 km;
 c) Y- Z = 362 km, YX=181 km; d) Y- Z = 111 km, YX=222 km.

Answer:



$$(292-70) : 2=222 \text{ km } Y \text{ ————— } Z$$

$$222:2=111 \text{ km } +70 \text{ km}=181 \text{ km } Y \text{ ————— } X$$