

Kangourou Mathematics 2008 Levels 3-4

3 Points

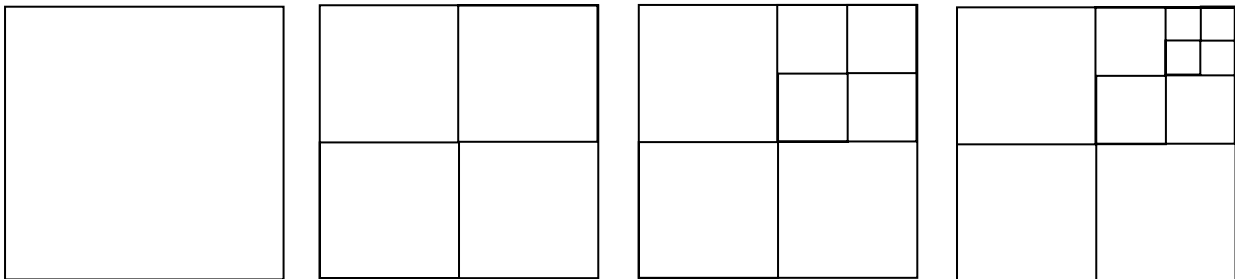
1) We eat 3 meals a day. How many meals do we eat in a week ?

- A) 7 B) 18 C) 21 D) 28 E) 37

2) An adult ticket to the ZOO costs 4 euros, the ticket for a child is 1 euro cheaper. How many euros must a father pay to enter the ZOO with his two children?

- A) 5 B) 6 C) 7 D) 10 E) 12

3) We make a sequence of figures with tiles. The first four figures have 1, 4, 7 and 10 tiles, respectively.



How many tiles will the fifth figure have?






- A) 11 B) 12 C) 13 D) 14 E) 15

4)

Miriam gave her mother, grandmother, aunt and two sisters each a bunch of flowers.

Which of them was for her mother, if you know that

- the flowers for sisters and aunt were of the same colour,
- grandmother did not receive roses.

 A) yellow tulips	 B) pink roses	 C) red carnations
 D) yellow roses	 E) yellow carnations	

5)

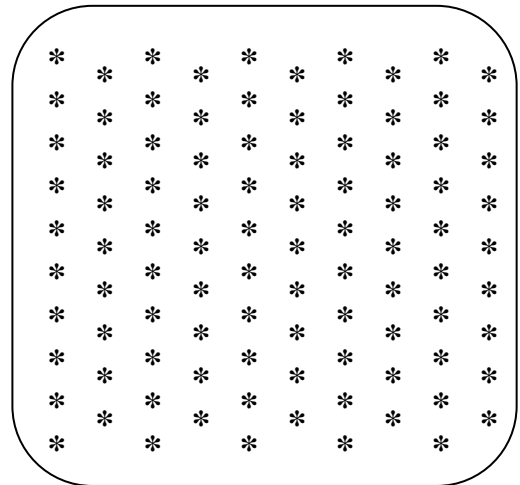
Theresa has 37 CDs. Her friend Claudia said: "If you give me 10 of your CDs, we will both have the same number of CDs." How many CDs does Claudia have?

- A) 10 B) 17 C) 22 D) 27 E) 32

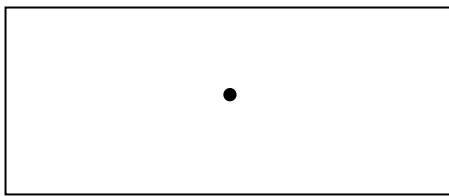
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6) How many stars are inside the figure?

- A) 100 B) 90 C) 95
 D) 85 E) 105



7) Rebecca has drawn a point on a piece of paper. She now draws four straight lines that pass through this point. Into how many sections do these lines divide the paper?



- A) 4 B) 6 C) 5 D) 8 E) 12

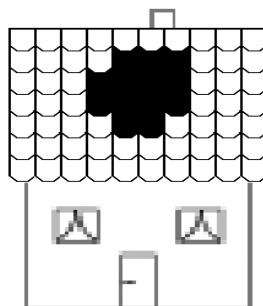
8) In six and one half hours it will be four hours after midnight. What time is it now?

- A) 21:30 B) 04:00 C) 20:00 D) 02:30 E) 10:30

4 points

9)

The storm made a hole in the front side of the roof. There were 10 roof tiles in each of 7 rows. How many tiles are left on the front side of the roof?



- A) 57 B) 59 C) 61 D) 67 E) 70

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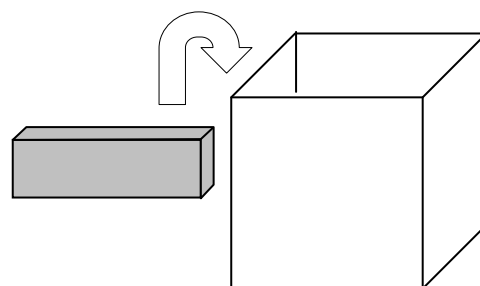
16) There are three songs on a CD. The first song is 6 minutes and 25 seconds long, the second song is 12 minutes and 25 seconds long, and the third song is 10 minutes and 13 seconds long. How long are all the three songs together?

- A) 28 minutes 30 seconds B) 29 minutes 3 seconds
 C) 30 minutes 10 seconds D) 31 minutes 13 seconds
 E) 31 minutes 23 seconds

5 points

17) We have a large number of blocks of $1 \times 2 \times 4$ cm. We will try to put as many of these blocks as possible in a box of $4 \times 4 \times 4$ cm so that we can close the box with a lid. How many blocks fit in?

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



18)

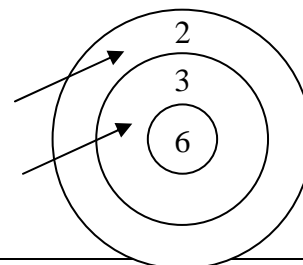
A kangaroo noticed that each winter he puts on 5 kilos and each summer he loses only 4. His weight is steady in spring and autumn. In the spring of 2008, he weighs 100 kg. How much did he weigh in autumn of the year 2004?

- A) 92 kg B) 93 kg C) 94 kg D) 96 kg E) 98 kg

19)

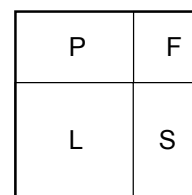
Jane shoots two arrows at the target. In the drawing we see that her score is 5. If both arrows hit the target, how many different scores can she obtain?

- A) 4 B) 6 C) 8
 D) 9 E) 10



20) A garden in the shape of a square is divided into a pool (P) a flowerbed (F) a lawn (L) and a sandpit (S) (see the picture). The lawn and the flowerbed are in the shape of a square. The perimeter of the lawn is 20 m, the perimeter of the flowerbed is 12 m. What is the perimeter of the pool?

- A) 10 m B) 12 m C) 14 m D) 16 m E) 18 m



21) Bill has as many brothers as sisters. His sister Ann has twice as many brothers as she has sisters. How many children are there in this family?

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

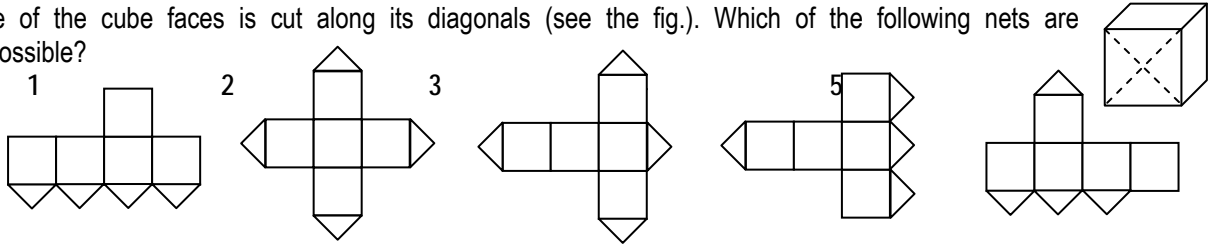
22) How many two-digit numbers are there in which the digit on the right is larger than the digit on the left?

- A) 26 B) 18 C) 9 D) 30 E) 36

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23)

One of the cube faces is cut along its diagonals (see the fig.). Which of the following nets are impossible?



A) 1 and 3

B) 1 and 5

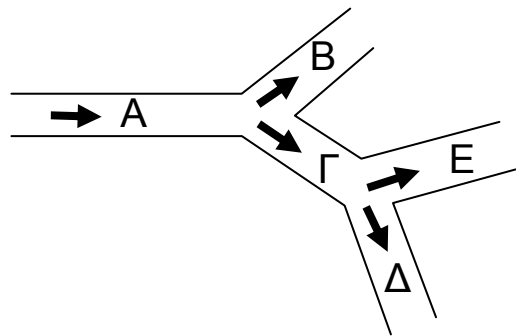
C) 3 and 4

D) 3 and 5

E) 2 and 4

24)

30 men and 40 women entered the road A. 20 of the men turned left into the road B and the rest turned into the road Γ . From the women group, 15 turned right into the road Γ and the rest turned left into the road B. From the women that entered the road Γ , 7 turned into the road Δ and the rest into the road E. From the men who entered the Γ , 8 turned into the road Δ and the rest into the road E. How many people in total entered the road E?



A) 8 B) 10 C) 12 D) 14 E) we cannot find it