

CIE-USA/DFW

Math Competition 2011

Grade 3

30 questions

Time: 45 minutes

Note:

\*Make sure to write all your answers on the answer sheet. Only the answer sheet will be graded. \*Each of the 30 questions carries the same weight, so if there is not enough time, work the easiest problems first.

Name \_\_\_\_\_

Room \_\_\_\_\_

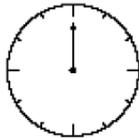
1. A butterfly sat down on a correctly solved problem. What number did it cover up?

$$2005 - 205 = 1300 +$$

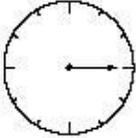
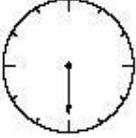
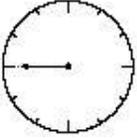
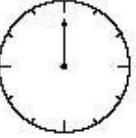


- A. 1800      B. 500      C. 910      D. 1500

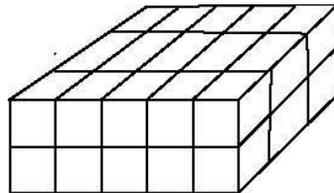
2. At noon, the minute hand of a clock is in the following position:



What will the position of the minute hand be after 17 quarters of an hour?

- A.       B.       C.       D. 

3. Give the volume.



- A. 20 cubic units      B. 25 cubic units  
C. 30 cubic units      D. 15 cubic units

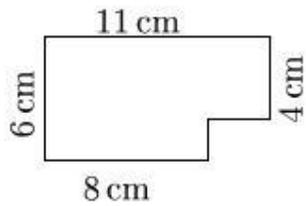
4. Eva lives with her parents, her brother, one dog, two cats, two parrots, and four fish. What is the total number of legs that they have altogether?

- A. 22      B. 24      C. 28      D. 32

5. What needs to be added to 4 dollars and 75 cents to make 10 dollars?

- A. 4 dollars and 45 cents
- B. 5 dollars and 15 cents
- C. 5 dollars
- D. 5 dollars and 25 cents

6. John has a chocolate bar consisting of square pieces 1 cm x 1 cm in size. He has already eaten some of the corner pieces (see the picture). How many pieces does John have left?



- A. 66
- B. 64
- C. 62
- D. 60

7. John has a stamp album. Each page has 6 rows of 8 stamps. He has stamps in 3 whole rows and one-half of the fourth row. How many more stamps can be put on that page?

- A. 19
- B. 20
- C. 18
- D. 15

8. Which is a way to make 432?

- A. 4 tens plus 32 ones
- B. 42 tens plus 12 ones
- C. 41 tens plus 21 ones
- D. 430 tens plus two

9. Anna's pencil is 18 centimeters long. Bob's pencil is 5 centimeters longer than Anna's. Cecilia's pencil is 4 centimeter shorter than Bob's. Daniel's pencil is 3 centimeters longer than Cecilia's. Who has the shortest pencil?

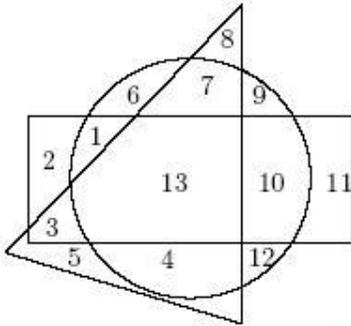
- A. Daniel
- B. Cecilia
- C. Bob
- D. Anna



16. There were some birds sitting on the telegraph wire. At one moment, 5 of them flew away and after some time, 3 birds came back. At that time there were 12 birds sitting on the wire. How many birds were there at the very beginning?

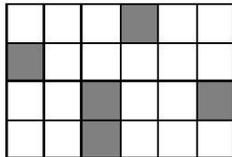
- A. 8      B. 13      C. 14      D. 12

17. Which numbers are inside a rectangle and inside a circle but not inside a triangle at the same time?



- A. 5 and 11      B. 1 and 10      C. 13      D. 3 and 9

18. How many white squares need to be shaded so that the number of shaded squares equals exactly to half of the number of white squares?



- A. 2      B. 3      C. 4      D. 6

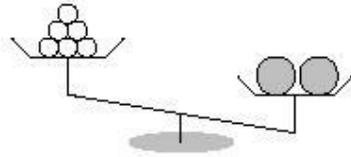
19. Kathy found a book, which was lack of certain number of sheets. When she opened the book she saw number 24 on the left side and number 45 on the right side. How many sheets between those sides were missing?

- A. 9      B. 10      C. 11      D. 20

20. A human heart beats an average of 70 times per minute. On average how many times does it beat during one hour?

- A. 42,000      B. 7,000      C. 4,200      D. 700

21. There are six identical oranges on one scale of the balance and two identical melons on the other scale. After we put one melon on the scale with the oranges, the scales will be balanced. How many oranges weigh as much as one melon?



- A. 3                  B. 4                  C. 5                  D. 6

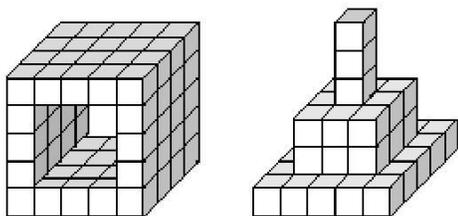
22. We add 17 to the smallest two-digit number and then we divide the sum by the largest one-digit number. What is the result?

- A. 3                  B. 6                  C. 9                  D. 11

23. Marysia leaves her house at 6:55 and arrives at school at 7:32. Zosia needs 12 minutes less than Marysia to get to school. Yesterday Zosia showed up at school at 7:45. What time did she leave her house?

- A. At 7:07                  B. At 7:20                  C. At 7:25                  D. At 7:30

24. Robert had a certain number of identical cubes. He glued a tunnel using half of his blocks (see Picture 1). With some of the remaining cubes he formed a pyramid (see Picture 2). How many blocks were not used to build those structures?

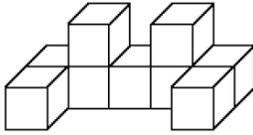


- A. 34                  B. 28                  C. 22                  D. 18

25. In the teachers' lounge there are 6 tables with 4 chairs by each one, 4 tables with 2 chairs by each, and 3 tables with 6 chairs by each. How many chairs are there in the lounge?

- A. 40                  B. 25                  C. 50                  D. 36

26. The figure presented in the picture, made with identical cubes, weighs 189 grams. How much does one cube weigh?



- A. 29 g      B. 25 g      C. 21 g      D. 19 g

27. Anna fell asleep at 9:30 PM and woke up at 6:45 AM the next day. Her little brother Peter slept 1 hour and 50 minutes longer. How long did Peter sleep?

- A. 30 hr 5 min    B. 11 hr 35 min    C. 11 hr 5 min    D. 9 hr 5 min

28. Peter chose a certain number, then he subtracted 203 from it, then he added 2003 to that difference. His final result was 20003. What number did Peter choose at the beginning?

- A. 23      B. 17797      C. 18203      D. 21803

29. There were 6 cookies on a plate. Henry ate  $\frac{1}{3}$  of the cookies on the plate. Marsha ate  $\frac{1}{2}$  of what was left. How many cookies were left for Art to eat?

- A. 2      B. 3      C. 0      D. 1

30. There are 29 students in the class. 12 of the students have a sister and 18 of the students have a brother. In this class, only Tania, Barbara, and Anna do not have any siblings. How many students from this class have both a brother and a sister?

- A. None      B. 1      C. 3      D. 4

**Tie-breaker Questions:**

31. The sum of a number and twice of it is 84. What's half this number?

- A. 14      B. 15      C. 12      D. 16      E. 28

32. Find the 10th term in the sequence

A. -256

B. 512

C. -512

D. 1024

E. -1024