

CIE-USA/DFW

Math Competition 2010

Grade 3

30 questions

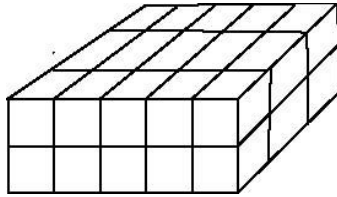
Time: 45 minutes

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.

1. Give the volume.



- A. 20 cubic units
- C. 30 cubic units

- B. 25 cubic units
- D. 15 cubic units

2. Find the product of 175 and 6.

- A. 1,050
- B. 1,150
- C. 1,030
- D. 1,250

3. Carla gave 12 dog treats to Howdy. This is twice as many treats as she gave to Spot. She gave the last 2 treats to Blackie. How many treats did Carla have to start with?

- A. 12 treats
- B. 10 treats
- C. 20 treats
- D. 18 treats

4. Sharon bought a soda for 55¢, fries for \$1.60 and a hotdog for \$2.35. If she gave the clerk \$5.00, how much change did she receive?

- A. \$0.95
- B. \$1.50
- C. \$0.50
- D. \$0.55

5. Mario practiced the piano during 45 minutes on Monday and 55 minutes on Tuesday. He needs to practice for 3 hours total. How many minutes does he need to practice on Wednesday to reach his goal?

- A. 75 minutes
- B. 65 minutes
- C. 80 minutes
- D. 45 minutes

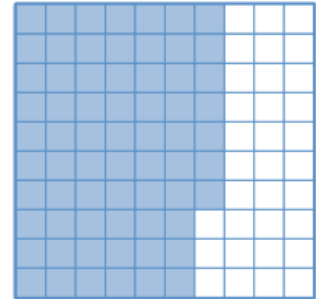
15. This stairway is 3 steps high. Including the bricks shown, how many bricks would be needed to make the stairway 8 steps high?



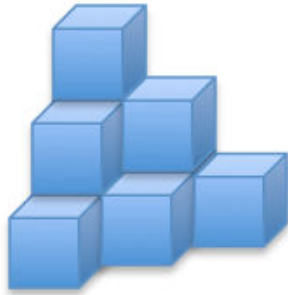
- A. 30 B. 34 C. 28 D. 36

16. How many squares are shaded?

- A. 66 B. 77 C. 76 D. 67



17. The tower is made up of three horizontal layers of cubes with no gaps. How many cubes are in the tower?



- A. 9 B. 6 C. 10 D. 8

18. The lunchroom workers are giving away free cookies today. They gave the first graders 4 cookies. They gave the second graders 8 cookies. They gave the third graders 12 cookies. They gave the fourth graders 16 cookies. If the pattern continues, how many cookies will the seventh grader receive?

- A. 20 B. 22 C. 24 D. 28

19. Gina is having a birthday party at home. Each time the doorbell rings, two of her friends arrive. If the doorbell rings 4 times, how many people in total are at the party?

- A. 8 B. 10 C. 9 D. 11

20. Tom, Bill and Joe picked oranges from the tree in their grandfather's yard. Tom picked 12 more oranges than Joe. Joe picked 8 less oranges than Bill. Bill picked 23 oranges. How many oranges did they pick together?
 A. 65 B. 60 C. 58 D. 55
21. Jack solved a math problem. If the dividend in his problem was 465 and the divisor was 3, what was the quotient?
 A. 150 B. 155 C. 160 D. 165
22. Mrs. Buchanan's third grade class need 150 paper napkins for a party. A small package of 50 napkins costs \$0.99. A large package of 150 napkins costs \$2.75. How much money would the class save by buying the large package of napkins?
 A. 0.25 B. 0.22 C. 0.20 D. 0.24
23. Tom has a stamp album. Each page has 5 rows of 6 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. 9 B. 10 C. 8 D. 5
24. Tamika has a secret number. If you subtract her number from 16, the answer is the same as when you subtract 4 from 12. What is Tamika's secret number?
 A. 10 B. 9 C. 7 D. 8
25. Mrs. Smith is trying to organize her computer disks. She has 46 disks to place in boxes. Each box holds 10 disks. How many boxes does she need to store her disks?
 A. 4 B. 5 C. 6 D. 3
26. Kevin buys 3 bags of marbles, one of each color. The marbles are priced differently. How much does he pay for the bags?

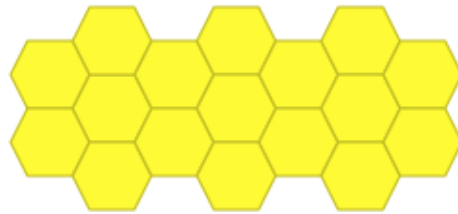
Marbles			
Bag	Color	Weight (in grams)	Price (in dollars)
A	black	1050	\$10
B	green	550	\$6
C	gray	400	\$5

- A. 20 B. 21
 C. 31 D. 19

27. Anna's pencil is 14 centimeters long. Bob's pencil is 3 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. Anna C. Bob D. Cecilia

28. A honeycomb is a mass of hexagonal wax cells built by honey bees in their nests. How many honeycomb cells are in the picture?



- A. 18 B. 17 C. 15 D. 20

29. Which is a way to make 321?

- A. 30 tens plus 21 ones B. 32 tens plus 11 ones
C. 31 tens plus 21 ones D. 320 tens plus one

30. In how many ways can a square be cut in half with one straight cut?

- A. 4 B. 8 C. 2 D. more than 8