CIE-USA/DFW

Math Competition 2008

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. What is the difference of 1,578 and 3,082?

A. 1,516 B. 1,494
C. 1,514 D. 1,504

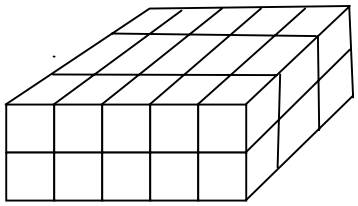
2. A group of students want to share some brownies. There are 3 brownies in each package. If there are 47 students, how many packages must they buy?

A. 13 packages B. 15 packages
C. 16 packages D. 14 packages

3. Mary is putting some beads in some bags. She has 24 beads and wants to put the same number of beads in each bag. The number of bags would depend on how many beads she places in each. Which answer shows all the possible number of bags she could use?

A. 1, 2, 3, 4, 5, 6, 8, 12, or 24 bags
B.1, 3, 8 or 24 bags
C. 1, 2, 3, 4, 6, 8, 12, or 24 bags
D. 1, 2, or 12 bags

4. Give the volume.



A. 16 cubic units B. 30 cubic units
C. 10 cubic units D. 15 cubic units

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

A) 2 B) 4 C) 8 D) infinitely many

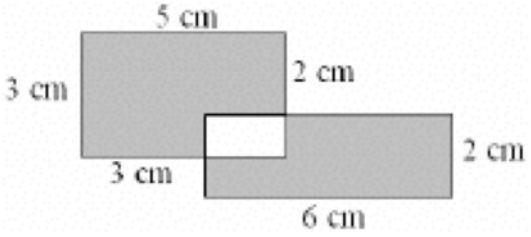
6. The shape on the right is made up of three rectangles, each measuring 3 cm by 1 cm. What is the perimeter of this shape, in cm.?

A) 16 B) 18 C) 20 D) cannot be determined

7. Mark wanted to buy a bike for $56 so he started saving his allowance. He saved $7.00 the first week. By the second week he had saved $14.00. If he continues saving his allowance in this pattern, how many more weeks will it take him to have enough money to buy the bike?

A. 8 weeks B. 5 weeks C. 7 weeks D. 6 weeks

8. The figure is a combination of two overlapping rectangles as shown. The shaded area, in square cm, is



A) 19 B) 23 C) 24 D) 25

9. Give eighty-four hundredths of one dollar as a money amount.

A. $8,400.00 B. $84.00 C. $8.40 D. $0.84

10. Mike is going to meet his friends to see a movie. It takes him 20 minutes to get to the movies and 35 minutes to complete his homework before he can go. The movie starts at 3:30 pm. At what time should he start his homework?

A. 2:45 B. 2:35 C. 2:25 D. 2:15

11. Which number completes this equation?

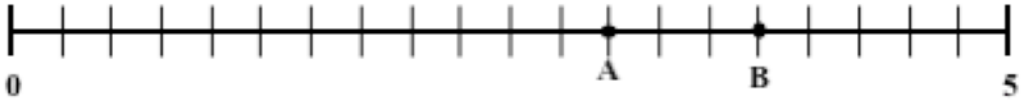
_____ + 14 = 9 + 20

A. 13 B. 11 C. 16 D. 15

12. Sharon bought a soda for 75¢, fries for $1.20 and a hotdog for $2.10. If she gave the clerk $5.00, how much change did she receive?

A. $1.95 B. $1.05 C. $1.15 D. $0.95

13. A number line from 0 to 5 is divided into 20 equal parts. What is the sum of the numbers located at points A and B?

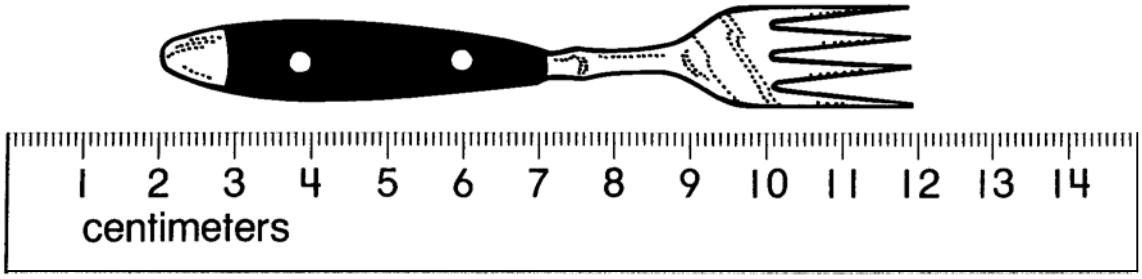


A) 6 B) 6.25 C) 6.5 D) 6.75

14. Mario practiced the piano during 50 minutes on Monday and 65 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?

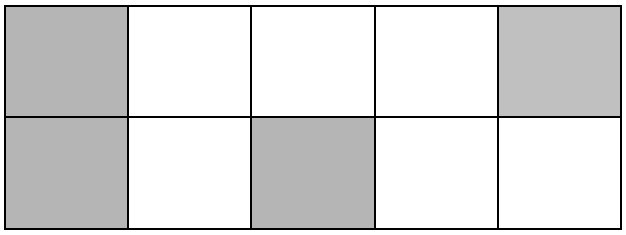
A. 75 minutes B. 65 minutes C. 55 minutes D. 45 minutes

15. About how long is the fork?



A. 12 centimeters
B. 11 centimeters
C. 10 meters
D. 10 centimeters

16. Give a fraction for the shaded part. Then give an equivalent fraction.



A. $\frac{1}{2}, \frac{4}{8}$ B. $\frac{4}{10}, \frac{2}{6}$

C. $\frac{4}{10}, \frac{2}{5}$ D. $\frac{6}{10}, \frac{3}{5}$

17. The graph shows the favorite sports chosen by a third grade class.

Favorite Sport

Baseball	★ ★ ★ ★
Football	★ ★ ★ ★ ★ ★
Soccer	★ ★ ★ ★ ★

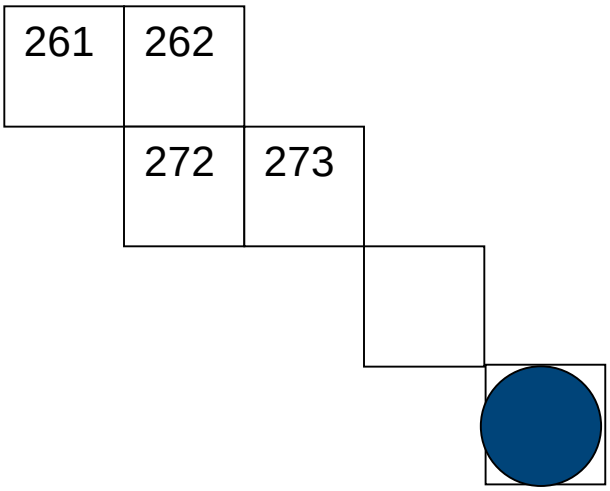
Each ★ means 6 children

How many students in all did NOT choose football?

A. 30 B. 32

C. 54 D. 42

18. Jenny used her 300 chart to do some math problems. Here is part of her chart. She covered a number with a coin. What number did she cover up?



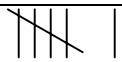
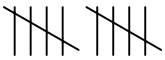
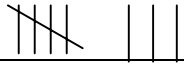
A. 284 B. 294 C. 285 D. 295

19. Maria planted some flowers in a row for her mother on Saturday. She planted them 4 inches apart. If the yard is 3 yards long, how many flowers did she plant?

A. 10 B. 27

C. 28 D. 9

Use the table to answer question 20.

Favorite Pizza Toppings		
Topping	Tally	Number
Cheese		6
Pepperoni		10
Sausage		8
Tomatoes		4

20. Suppose you make a bar graph using the information from the table. Which of these scales would you most likely use to construct your graph?

A. 3, 6, 9, 12, 15, 18
B. 5, 10, 15, 20, 25, 30
C. 2, 4, 6, 8, 10, 12
D. 10, 20, 30, 40, 50, 60

21. Manuel's mom is making biscuits for a family reunion. There are 67 people attending. She is making sure there are two biscuits for each person. How many packages of biscuits should she buy if 12 come in each one?

A. 10 B. 11 C. 14 D. 12

22. Joshua solved a math problem. If the dividend in his problem was 456 and the divisor was 3, what was the quotient?

A. 122 B. 142 C. 152 D. 172

23. Sunny is going to walk one of these dogs using one of these leashes. How many different combinations of one dog and one leash can Sunny make?

A. 7 B. 12 C. 4 D. 8

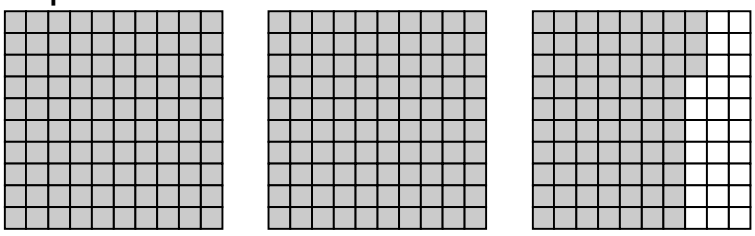
24. Jake poured 28 ounces of water in a container, 4 cups of soda in another container, $\frac{2}{4}$ of a quart of juice in a third container, and $1\frac{1}{2}$ pint of milk in a fourth container. Which container held the most?
(Remember: 1 cup = 8 ounces 2 cups = 1 pint,
2 pints = 1 quart)

A. container with soda
B. container with water
C. container with juice
D. container with milk

25. Carla gave 8 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. 2 treats B. 10 treats
C. 14 treats D. 18 treats

26. The large square equals 1. Give the decimal that names the shaded part of this model.



A. 0.273 B. 2.83 C. 273 D. 2.73

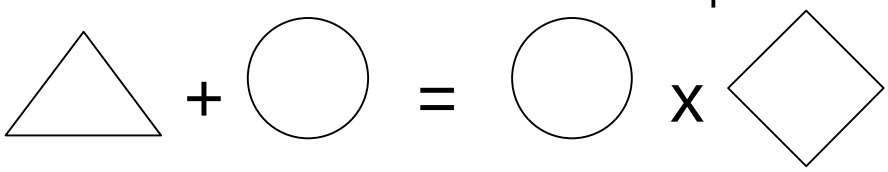
27. Find the product of 485 and 4.

A. 1,940 B. 1,904
C. 2,094 D. 19,400

28. Mary bought some ribbon for a project. She cut off 8 inches and cut the remaining ribbon into four equal parts. Each of these parts was 15 inches long. How long was the ribbon that Mary bought?

A. 23 in. B. 27 in.
C. 68 in. D. 58 in.

29. Each different shape represents a different number. What set of numbers could be used for each shape?



A. ○ = 3, △ = 8, ◇ = 4

B. △ = 5, ○ = 3, ◇ = 1

C. △ = 3, ○ = 12, ◇ = 5

D. ◇ = 5, ○ = 3 △ = 12

30.. In this additive magic square, five more numbers can be placed in the boxes so that the sum of the three numbers in each row, in each column, and in each diagonal is always the same. What is the number in A?

15		35
50		
25	A	

A) 10 B) 20 C) 30 D) 40