

**CIE – USA/DFW**

**Math Competition 2002**

**Grade 3**

**30 questions**

**Time: One Hour**

Note:

\*Make sure to write all of your answers on the answer sheet. Only the answer sheet will be graded.

\*Each of the 30 questions carries the same weight, so if time is not enough, work the easiest problems first.

1. Caren uses this pattern to string beads for a necklace. She begins by stringing 2 red beads, then 3 blue beads, then 2 red beads, then 3 blue beads and so on. She put 17 beads on the string. How many blue beads are on the necklace?

A. 6 beads    B. 8 beads    C. 9 beads    D. 17 beads

Use the table to answer 2 and 3.

Pasta	Tally	Number
Noodles		4
Spaghetti		12
Macaroni		10
Ravioli		8

2. Suppose you make a pictograph. You decide to have each symbol equal 2 votes. How many symbols will you draw to show the votes for spaghetti?

A. 2 symbols                      B. 6 symbols  
C. 12 symbols                     D. Not here

3. Suppose you make a bar graph. Which of these scales would you be most likely to use?

A. 2, 4, 6, 8, 10, 12  
B. 25, 50, 75, 100, 125, 150  
C. 10, 20, 30, 40, 50, 60  
D. 6, 12, 18, 24, 30, 36

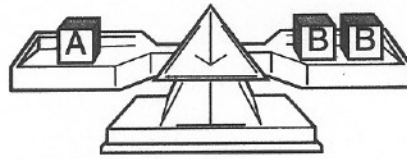
4. Caroline serves popcorn to 21 friends at a slumber party. Each bag serves 4 people. How many bags does she need?

A. 6 bags            B. 5 bags            C. 4 bags            D. 25 bags

5. Joyce is placing photographs in an album. She has 18 photographs and wants to put the same number on each page. The number of pages in the album would depend upon how many photos Joyce places on a page. Use these different arrangements to find how many pages could be in the album.

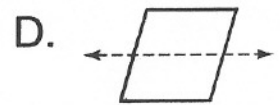
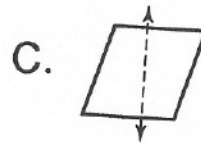
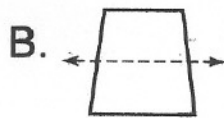
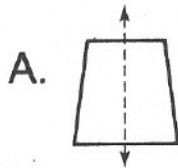
- A. 1 or 2 pages                      B. 2, 4, 6, or 8 pages  
 C. 1, 2, 3, 6, 9, or 18 pages      D. only 5 pages

6. Box A has 8 cubes inside. Each box B has an equal number of cubes. How many cubes are in each box B?

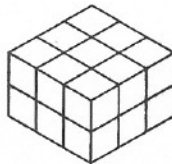


- A. 8 cubes      B. 2 cubes      C. 16 cubes      D. 4 cubes

7. Which has a line of symmetry?

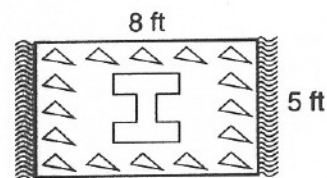


8. Give the volume.



- A. 6 cubic units                      B. 16 cubic units  
 C. 18 cubic units                      D. Not here

9. What is the perimeter of the carpet?



- A. 26 feet      B. 13 feet      C. 40 feet      D. 16 feet

10. Find the product.

$$\begin{array}{r} \$8.47 \\ \times \quad 5 \\ \hline \end{array}$$

- A. \$40.25      B. \$42.25      C. \$42.35      D. Not here

11. Ashley started an exercise program. At the end of the first week, she had exercised 6 hours. By the end of the second week, she had exercised 12 hours. If the pattern continues, how many weeks will it take her to complete 30 hours of exercise?

- A. 3 weeks      B. 5 weeks      C. 4 weeks      D. Not here

12. Julie took 2 steps for every 3 steps her little sister took. After Julie has walked 12 steps, how many steps has her little sister walked?

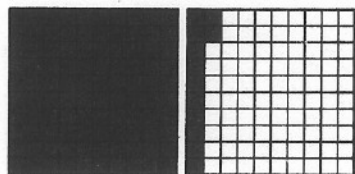
- A. 6 steps      B. 9 steps      C. 12 steps      D. 18 steps

13. Choose the correct comparison.

$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

- A.  $\frac{2}{4} < \frac{4}{8}$       B.  $\frac{2}{4} = \frac{4}{8}$       C.  $\frac{2}{4} > \frac{3}{8}$       D. Not here

14. Give the decimal that names the shaded part.



- A. 0.12      B. 1.12      C. 1.2      D. 112

15. Give ninety-four hundredths of \$1.00 as a money amount.

- A. \$9,400      B. \$94.00      C. \$9.40      D. Not here

16. Joan picked a number to start with. Then she added 18, subtracted 5, and added 8. If Joan ended up with 38, what number did she start with?

- A. 7      B. 27      C. 17      D. Not here

17. Kate has a dental appointment at 9:15 A.M. It will take her 20 minutes to get to the dentist's office and 40 minutes to get ready in the morning. What time should Kate wake up?

- A. 10:15      B. 7:15      C. 8:15      D. 3:15

18. Larry cut 30 in. off of a piece of molding. Then he cut the remaining piece into 3 equal pieces. Each of these pieces was 12 in. long. How long was the original piece of molding?

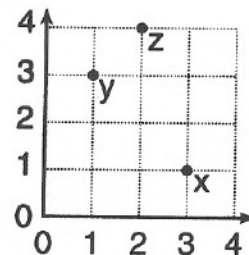
- A. 66 in.      B. 45 in.      C. 15 in.      D. 3 in.

19. David buys a dinosaur puzzle for \$3.59. He gives the clerk \$10.00. How much change does he receive?

- A. \$13.59      B. \$6.41      C. \$1.41      D. Not here

20. What is the ordered pair for point X?

- A. (1,3)      B. (2,3)  
C. (3,1)      D. (1,4)



21. Give two and thirty-five hundredths as a decimal.

- A. 235                      B. 2.35                      C. 2.05                      D. .23

22. How many combinations of colors can be made using two colors of paint if you have red, blue, yellow and white paint?

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

23. Jo has a total of twenty-five cents. How many combinations of coins could she have if she has only nickels and/or dimes?

- A. 1 combination                      B. 2 combinations  
C. 3 combinations                      D. 4 combinations

24. Which numbers are ordered from least to greatest?

- A. 56,897    56,789    56,987  
B. 43,602    43,206    42,306  
C. 32,145    32,451    32,541  
D. 82,903    89,203    83,902

25. Kyra brought 30 apples and oranges for the class field trip. She brought 4 more apples than oranges. How many apples did she bring?

- A. 17 apples                      B. 26 apples  
C. 20 apples                      D. 34 apples



## Third Grade Answer Key

1. C
2. B
3. A
4. ~~B~~ A
5. C
6. D
7. A
8. C
9. A
10. C
11. B
12. D
13. B
14. B
15. D
16. C
17. C
18. A
19. B
20. C
21. B
22. D
23. C
24. C
25. A
26. D
27. C
28. B
29. C
30. B