

CIE-USA/DFW
Math Competition 2005
Grade 4
35 questions
Time: One Hour

Note:

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

1. Steven orders three large pepperoni pizzas from Mario's Pizza parlor for \$10.95 each and an extra large supreme pizza at \$13.95. He uses a \$5.00 coupon. How much does he have to pay for the pizzas?
 - a). \$46.75
 - b). \$46.80
 - c). \$37.85
 - d). \$41.80

2. Lindsey gave 2,495 stamps to Tina, 728 stamps to Josh, and 407 envelopes to Ryan. Now she has 23 stamps left. How many stamps did Lindsey start with?
 - a). 3,630
 - b). 3,246
 - c). 3,676
 - d). 3,653

3. A rectangular prism is 24 in. long, 13 in. wide, and 32 in. high. What is the volume?
 - a). 69 inches
 - b). 69 cubic inches
 - c). 9,984 inches
 - d). 9,984 cubic inches

4. List the following fractions in order from smallest to greatest:
4/25, 8/16, 1/4, 16/20
 - a). 16/20, 1/4, 8/16, 4/25
 - b). 1/4, 16/20, 4/25, 8/16
 - c). 4/25, 1/4, 8/16, 16/20
 - d). 1/4, 8/16, 16/20, 4/25

5. Jake went hiking with his family during the fall break. They hiked 1/5 mile on Wednesday, 4/10 mile on Thursday, and 1/2 mile on Friday. How many miles did they hike on Wednesday and Friday?
 - a). 0.7 miles
 - b). 0.07 miles
 - c). 1.1 miles
 - d). 11.1 miles

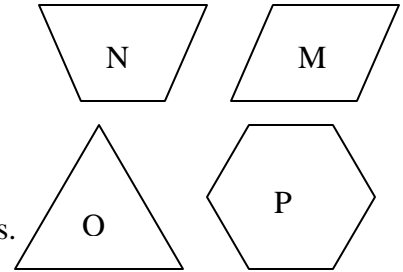
6. Amy did a survey of favorite ice cream flavors. Out of the 40 people she interviewed, 12 of them preferred vanilla ice cream to chocolate ice cream. How many people, based on this survey, out of 1,500 would you expect to prefer chocolate ice cream?
- 42,000 people
 - 4,500 people
 - 18,000 people
 - 1,050 people
7. Emmy practices violin from 3:45 to 4:20 p.m. everyday. John practices violin from 4:25 to 5:15 p.m. 5 times a week. Jake practices his violin everyday for $\frac{2}{12}$ hour longer than Emmy. List the amount of time each student spends practicing in order from greatest to least.
- Emmy, Jake, John
 - Emmy, John, Jake
 - Jake, John, Emmy
 - John, Jake, Emmy
8. Jane collected the following numbers for her science experiment: 0.00964 m, 9.64 cm, 90.64 dm, 96.4 cm, 9.64 m. How should she arrange these numbers in order from least to greatest?
- 0.00964 m, 9.64 cm, 96.4 cm, 9.64 m, 90.64 dm
 - 0.00964 m, 9.64 cm, 96.4 cm, 90.64 dm, 9.64 m
 - 9.64 cm, 0.00964 cm, 90.64 dm, 96.4 cm, 9.64 m
 - 9.64 cm, 90.64 dm, 96.4 cm, 9.64 m, 0.00964 cm
9. Lori has \$12.00 to buy school supplies. Which of the following combinations of supplies does she have enough money to buy?
- 2 boxes of crayons, a notebook, and a dictionary
 - a dozen of pencils and a dictionary
 - 4 notebooks, crayons and 8 pencils
 - a dictionary and three boxes of crayons

Price	Supplies
Crayons	\$3.50
Notebook	\$1.25
Eraser	\$0.75
Dictionary	\$5.99
Pencil	\$0.50

10. During the group project, these students argued over the following measurements. Who is right?
- Amy: one yard is $\frac{1}{36}$ of one inch.
 - Linda: one decimeter is $\frac{1}{10}$ of one centimeter.
 - Amber: One millimeter is $\frac{1}{10}$ of one centimeter.
 - Ashley: one mile is $\frac{1}{5280}$ of one foot.

11. Which statement about the figures shown below is true?

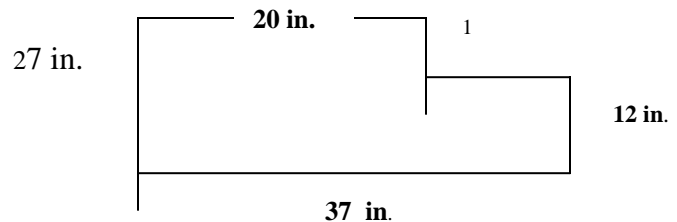
- Figures M and O each have all acute angles.
- Figures O and N each have only obtuse angles.
- Figures M and P each have more than one line of symmetry.
- Figures M and P each have more than one pair of parallel sides.



12. Marcia wants to round 8,248,975 to the nearest hundreds. Which is the correct answer?
- 8,249,000
 - 8,248,900
 - 8,249,975
 - 8,248,970

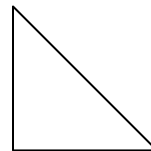
13. Rob wants to build a garden as the figure shown. What is the area of his garden?

- 1,239 inches
- 1,239 square inches
- 744 square inches
- 744 inches



14. Andy drew a triangle that has exactly two sides of equal length. What kind of triangle did he draw?

- Equilateral
- Right isosceles
- Right Scalene
- quadrilateral



15. There are 2 red gloves, 6 green gloves, 2 black gloves, and 8 purple gloves in Eric's drawer. What is the probability of picking a black glove from the drawer without looking?
- a). $\frac{6}{18}$
 - b). $\frac{8}{18}$
 - c). $\frac{1}{2}$
 - d). $\frac{1}{9}$

16. The table below shows the number of people at each hockey game. Approximately how many people attended the hockey games?

Game	Audience
1	3,217
2	4,525
3	3,129
4	3,905

- a). 13,000 people
- b). 14,000 people
- c). 15,000 people
- d). 16,000 people

17. What is the mean of the audiences for all four games?

- a). 3,694 people
- b). 3,217 people
- c). 3,129 people
- d). 4,525 people

18. There are 208 third grade students, 106 fourth grade students, and 5 fourth grade teachers at Valley View Elementary. Mrs. Brown wants to seat 6 fourth grade students at a table in the cafeteria. How many tables are needed?

- a). 17 tables
- b). 18 tables
- c). 52 tables
- d). 53 tables

19. Lynette was 4 feet 3 inches tall last year. Now she is 62 inches tall. How many inches did she grow?

- a). 1 ft 8 in.
- b). 1 ft 11 in.
- c). 19 in.
- d). 11 in.

20. At Mario's Pizza, they make thin and thick crusts. The sizes include small, medium, large, extra large, and personal pan. You can have pepperoni, sausage, Canadian bacon, mushroom, or anchovy for the topping. Zoe doesn't like anchovy on his pizza. How many different combinations for a one-topping pizza can Zoe have?
- a). 20
 - b). 40
 - c). 12
 - d). 50
21. Stacey's basketball team play 476 games for the past five years. They lost $\frac{4}{7}$ of the games. How many games did they not lose?
- a). 272
 - b). 68
 - c). 204
 - d). 119
22. On the field day, Edward ran the 100-meter dash in 18.3 seconds. Lisa's record was 1.2 seconds longer than Edward's. Danny beat Edward by 3.65 seconds. What was Danny's record?
- a). 14.65
 - b). 19.5
 - c). 21.95
 - d). 13.45
23. Lauren drew a triangular prism, a square pyramid, a triangular pyramid, and a cylinder. How many vertices are there all together?
- a). 3
 - b). 14
 - c). 15
 - d). 16
24. Peter's toy car weighs 750 g. What fractional part of a kilogram is 750 g?
- a). $\frac{15}{20}$
 - b). $\frac{1}{4}$
 - c). $\frac{1}{75}$
 - d). $\frac{75}{528}$

25. Ann's aquarium can hold 14 gallons and 3 quarts of water. Jimmy's aquarium can hold 6 quarts and 28 pints of water. What is the total capacity for both aquariums?
- a). 51 quarts
 - b). 316 quarts
 - c). 260 cups
 - d). 79 quarts
26. Complete the pattern: 250,000; 25,000; 2,500; 250; 25; 2.5, _____, _____.
- a). 0.250, 0.0025
 - b). 0.25, 0.025
 - c). 2.05, 0.25
 - d). 0.025, 0.0025
27. On Monday the temperature was 14 degrees C. By the afternoon, the temperature was 20 degrees cooler. What was the temperature in the afternoon?
- a). 6 degrees
 - b). 34 degrees
 - c). -4 degrees
 - d). -6 degrees
28. Mrs. Darby wants to make brownies for the annual bake sale. Each batch calls for $\frac{3}{4}$ cup of vegetable oil and 2 eggs. How many cups of oil will she need if she wants to make 14 batches of brownies?
- a). ten and four eighths cups
 - b). four and twenty-five hundredths cups
 - c). ten and one fourth cups
 - d). ten and four fourths cups
29. Terry had 5 20-dollar bills, 7 quarters, 4 dimes, 8 nickels, and 209 pennies. She bought a computer game for \$99.00 including tax. She then spent $\frac{3}{4}$ of the change on a box of color pencils. How much money did she have left?
- a). \$1.61
 - b). \$1.41
 - c). \$4.23
 - d). None of the above

30. Complete the pattern: 17 oz, 2 lb 11oz, 69 oz, 5 lb 15 oz, ____.
- a). 111 oz
 - b). 121 oz
 - c). 7 lb 7 oz
 - d). 7 lb 8 oz
31. Dan bought a phone card to call his grandparents in Michigan. He paid \$5.00 for 100 minutes. How much money did he spend if he talked for 35 minutes?
- a). \$1.075
 - b). \$1.50
 - c). \$1.75
 - d). \$3.25
32. The time in Taiwan is 13 hours earlier than the time in Dallas. Ashley called her uncle at 9:15 p.m. on Sunday from Dallas and talked for $\frac{3}{5}$ hour. What time was it in Taiwan when she finished the phone call?
- a). 9:51 a.m. on Sunday
 - b). 9:15 a.m. on Saturday
 - c). 8:51 p.m. on Sunday
 - d). 10:51 a.m. on Monday
33. Write this number in standard form: fifty-six million, seven thousand, 700 tens, eighty
- a). 56, 014,800
 - b). 56, 140, 780
 - c). 56, 700, 780
 - d). 56, 014, 080

34. Look at the nutrition facts for the Great Value creamy peanut butter:

Net weight	28 oz (794 g)
Serv. size	2 tbsp (32 g)
Calories	200
Total fat	18 g
Sodium	150 mg

What is the estimated amount of sodium if you use the entire jar of peanut butter to make peanut butter/jelly sandwiches?

- a). 260 mg
- b). 2,600 mg
- c). 3,000 mg
- d). 3,900 mg

35. Linda saved \$37 on Jan. 17. On the second day she saved \$55. By the end of the third day, she'd saved \$165 in total. If this pattern continues, on what day would she be able to save \$520?

- a). day 5
- b). day 6
- c). day 7
- d). day 8

Fourth Grade Test Answer Key

1. d
2. b
3. d
4. c
5. a
6. d
7. c
8. b
9. b
10. c
11. d
12. a
13. c
14. b
15. d
16. c
17. a
18. b
19. d
20. b
21. c
22. a
23. c
24. a
25. d
26. b
27. d
28. a
29. b
30. b
31. c
32. d
33. d
34. d
35. c