

CIE-USA/DFW  
Math Competition 2005  
Grade 3  
34 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. Lauren spent \$84.05 on an encyclopedia and seven dictionaries. The dictionary costs \$7.89 each. How much was the encyclopedia?
  - a). \$55.86
  - b). \$55.23
  - c). \$29.27
  - d). \$28.82
  
2. Clay can buy a 14 oz Yogurt for \$1.96 or a 21 oz yogurt for \$2.94. Which is a better buy?
  - a). 14 oz yogurt because it costs only \$1.96
  - b). 21 oz yogurt because you get more yogurt.
  - c). They both cost the same.
  - d). 21 oz yogurt because it's \$0.14 cheaper.
  
3. Samantha is 2 ft 5 in. tall. Her sister, Emily, is twice as tall as Samantha. Their dad, Mr. Lorenzo, is 13 in. taller than Emily. How tall is Mr. Lorenzo?
  - a). 4 ft 3 in.
  - b). 4 ft 11 in.
  - c). 4 ft 13 in.
  - d). 5 ft 11 in.
  
4. Eric has a string that is 28 yards long. How many 12 in. pieces can be cut from the string?
  - a). 7
  - b). 28
  - c). 84
  - d). None of the above
  
5. Morgan lives 2.4 miles from school. Ashley's house is  $2\frac{3}{4}$  miles from school. Who lives closer to school?
  - a). Morgan by 0.35 miles
  - b). Ashley by 0.35 miles
  - c). Ashley by 0.25 miles
  - d). Morgan by 0.25 miles
  
6. Ryan's aquarium can hold 15 gallons of water. Christopher's aquarium can hold 335 cups of water. Sheryl's aquarium can hold only 75 pints of water. List the capacity of the aquariums in order from greatest to least.
  - a). Christopher, Ryan, Sheryl
  - b). Sheryl, Ryan, Christopher
  - c). Christopher, Sheryl, Ryan
  - d). Ryan, Sheryl, Christopher

7. 126 third grade students from Esperanza Elementary are going to the museum on a field trip. If each bus can accommodate 43 people, how many buses will be needed?
- 2
  - 3
  - 4
  - 5
8. Complete the pattern: 4, 8, 24, 48, \_\_\_\_, 288, 864..
- 56
  - 84
  - 96
  - 144
9. Mrs. Cook ordered construction papers in package of 50 sheets each. She ordered 600 sheets of papers. She later ordered two times as many as the first order. How many packages did she order all together?
- 48
  - 36
  - 24
  - 12
10. List the following fractions in order from least to greatest:  $\frac{7}{14}$ ,  $\frac{24}{5}$ ,  $\frac{9}{10}$ ,  $\frac{26}{14}$
- $\frac{7}{14}$ ,  $\frac{9}{10}$ ,  $\frac{26}{14}$ ,  $\frac{24}{5}$
  - $\frac{7}{14}$ ,  $\frac{26}{14}$ ,  $\frac{24}{5}$ ,  $\frac{9}{10}$
  - $\frac{24}{5}$ ,  $\frac{26}{14}$ ,  $\frac{9}{10}$ ,  $\frac{7}{14}$
  - $\frac{24}{5}$ ,  $\frac{9}{10}$ ,  $\frac{26}{14}$ ,  $\frac{7}{14}$
11. Derek saved \$2.00 every week for  $1\frac{1}{2}$  year by doing chores. He spent  $\frac{1}{4}$  of his money on a video game. How much money did he have left?
- \$156
  - \$117
  - \$ 78
  - \$39
12. In a bag there are tennis balls numbered one through twenty-seven. What is the probability of not picking an even number?
- fourteen
  - thirteen
  - fourteen out of twenty seven
  - thirteen out of twenty seven

13. There are 5 donuts, 3 muffins, and 8 bagels in a basket. What is the likelihood of picking a muffin without looking?
- a). likely
  - b). equally likely than unlikely
  - c). unlikely
  - d). impossible

14. The chart shows the average temperature in January in southern Arizona and Alaska. What is the range of temperature in these two cities?

- a). 36 degrees
- b). 48 degrees
- c). 62 degrees
- d). 72 degrees

Arizona	Alaska
60	-12

15. Sara is 5 years older than Jessica. The sum of their ages is 27. How old is each girl?
- a). Sara is 16 and Jessica is 11.
  - b). Sara is 11 and Jessica is 16.
  - c). Sara is 27 and Jessica is 22
  - d). Sara is 22 and Jessica is 27

16. Josh's family went to a rodeo show last Saturday. The children paid \$3.50 each and an adult's ticket was \$4.25. How many of each did Josh buy if he spent \$31.00?

- a). 4 adult tickets and 4 children tickets
- b). 4 adult tickets and 3 children tickets
- c). 3 adult tickets and 4 children tickets
- d). None of the above

17. Can you guess Cortney's mystery number? It is a 2-digit number. It can be divided by 1, 2, 4, 6, 8, 12, 16, 24, and 48. It is less than 53. What is Cortney's number?

- a). 52
- b). 48
- c). 36
- d). 32

18. What is the most reasonable measurement for the orange juice in a glass?

- a). 400 mm
- b). 4 0 gallons
- c). 40 liters
- d). 400 ml

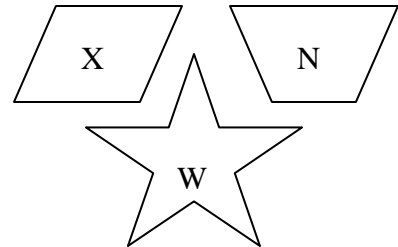
19. Mrs. Stile needs  $\frac{1}{4}$  cup of oil for each batch of muffins that she's making for the bake sale. She has 3 pints of the oil in the pantry. Does she have enough oil to make 10 batches?
- No, she needs  $11\frac{1}{2}$  cups more.
  - Yes, she needs all 3 pints of the oil.
  - Yes, she will have  $3\frac{1}{2}$  cups left.
  - No, she needs  $\frac{1}{2}$  cup more.
20. Nicole has tile to cover 175 sq. ft. Each tile costs \$0.35. Is that enough tile to cover the floor of the living room that is 12 ft long and 15 ft wide?
- Yes, she has exactly the right amount of tile for the living room.
  - No, she is 5 sq ft short.
  - No, she is 10 sq ft short.
  - Yes, she has enough tile for 5 more sq ft.
21. Mrs. Wilson bought a ham that weighed 7.35 pounds. According to the instructions she needed to bake 12-15 minutes per pound of the ham. About how long did she have to bake the ham in the oven?
- Less than 84 minutes
  - More than 120 minutes
  - Between 96 and 120 minutes
  - Between 84 and 105 minutes
22. A jar of strawberry jam was  $\frac{9}{10}$  full. Kyle used  $\frac{12}{20}$  of the jam. How much jam was left in the jar?
- $\frac{4}{10}$
  - $\frac{7}{10}$
  - $\frac{3}{10}$
  - $\frac{21}{20}$
23. Lauren's watch loses 7 minutes each hour. If she sets it correctly at 2 p.m., what time is it really when her watch says 6:00 p.m.?
- 5:35 p.m.
  - 5:35 a.m.
  - 5:32 a.m.
  - 5:32 p.m.
24. Jill cut a 75 in. long ribbon into 36 pieces. Then she cut each piece into fifths again. How many pieces of ribbons does Jill have now?
- 180
  - 195
  - 15
  - 375

25. An atlas costs \$4.95. Karen has 6 pennies, 5 nickels, and 7 quarters. How much more money does she need?

- a). \$2.89
- b). \$2.98
- c). \$2.99
- d). \$3.00

26. Which statement is **not** correct?

- a). Figures W and X each have more than one line of symmetry.
- b). Figure W has only acute angles.
- c). Both figures X and N are quadrilaterals.
- d). Figure N is not a prism.



27. Molly has a bag of beads. She has 4 more green beads than red beads. She has one half as many red as black. There are twice as many black as pink. There are 96 pink beads. How many green beads does she have?

- a). 20
- b). 28
- c). 96
- d). 100

28. Kristen wrote these numbers shown below. What is the median?

13, 6, 8, 29, 14, 5, 54, 9, 25, 18, 3

- a). 25
- b). 14
- c). 13
- d). 9

29. Complete the pattern. 12 ft 6 in., 12 ft 4 in., 12 ft 0 in., 11 ft 6 in., 10 ft 10 in., \_\_\_\_\_.

- a). 10 ft 2 in.
- b). 10 ft 0 in.
- c). 10 ft 8 in.
- d). 10 ft 12 in.

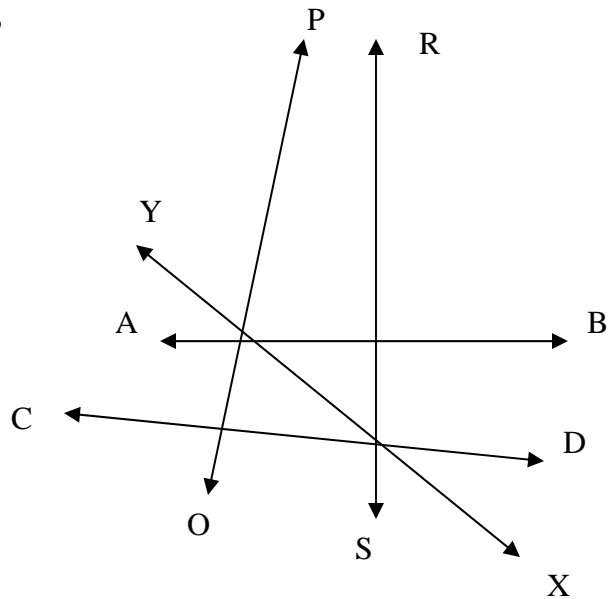
30. Sean spent 7,996 seconds doing his homework. How do you round this number to the nearest tens?

- a). 7,900
- b). 7,990
- c). 8,000
- d). 8,900

31. Mrs. Gatson's car travels 30 miles per gallon. She is going to Uncle Larry's house that is 628 miles from her house. About how many gallons of gas does she need to buy for the round trip?
- 40 gallons
  - 30 gallons
  - 20 gallons
  - 42 gallons
32. Write this number in standard form: 3 million, 47 thousand, 500, 14 tens
- 3,470, 640
  - 3, 470, 514
  - 3, 47, 140
  - 3, 047, 640
33. Mark started his karate lesson on Tuesday, August 17. He had the karate lesson every four days. Which of the following date would he have the karate lesson?
- August 22
  - August 29
  - September 1
  - September 5

34. Which two lines appear to be perpendicular?

- Line CD and Line XY
- Line RS and Line PO
- Line RS and Line AB
- Line RS and Line CD



### Third Grade Test Answer Key

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