

CONTESTANT ID #: _____

*Place Contestant ID label here BEFORE
Contest Begins*

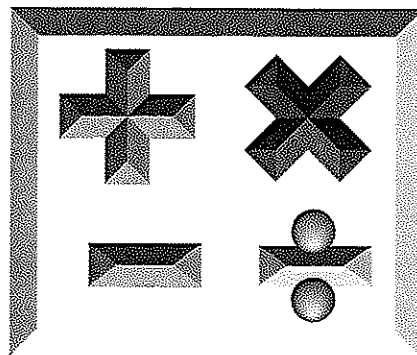
GRADE LEVEL : _____



Mathematics

District Contest

Grades 2-3



2023

FINAL SCORE: _____

(Please do not open test until the signal is given to begin.)

Directions: Choose the best answer for each of the following problems.

1. $47 + 38 =$

- A. 65 B. 75 C. 85 D. 95

2. $82 - 26 =$

- A. 66 B. 56 C. 68 D. 58

3. $486 + 379 =$

- A. 865 B. 765 C. 855 D. 755

4. Round 8493 to the nearest ten's place.

- A. 8490 B. 8500 C. 8550 D. 8000

5. LXX = _____ (Arabic numerals)

- A. 12 B. 60 C. 70 D. 52

6. Tammy had forty-six rocks in her collection. She gave seventeen of them to Julia. Now, Julia has thirty-two rocks. How many rocks did Julia have before Tammy gave her some rocks?

- A. 31 B. 12 C. 61 D. 15

7. $8 + 10 + 12 + 14 + 16 + 18 =$

- A. 38 B. 78 C. 72 D. 82

8. How many dimes equal the same amount as 12 quarters?
- A. 35 B. 36 C. 24 D. 30
9. What single digit goes in the box to make the statement true? $\square 5 \square + 6 \square \square = 1098$
- A. 4 B. 3 C. 9 D. 8
10. How much should be added to the largest 3-digit number with exactly one “9” to equal 1000?
- A. 100 B. 1 C. 19 D. 12
11. $18 \times 6 =$
- A. 108 B. 98 C. 106 D. 96
12. $31 \times 39 =$
- A. 909 B. 1009 C. 1209 D. 1409
13. Which of the following products is equal to 24×4 ?
- A. 42×2 B. 18×3 C. 15×6 D. 12×8

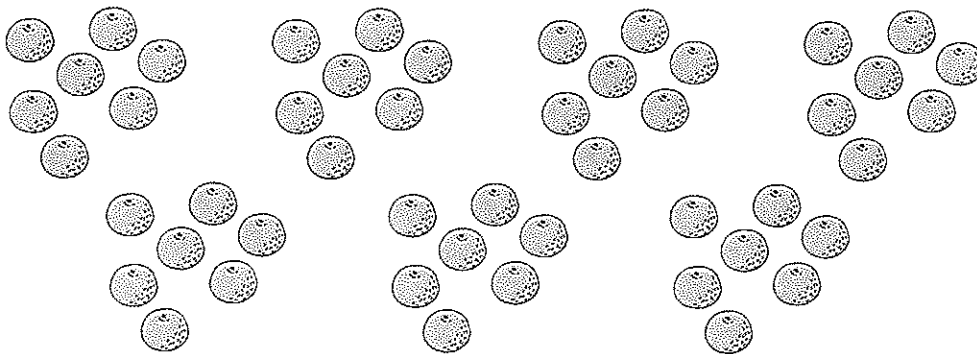
14. A school has 78 students. Which of the following ways can the students line up?

- A. 2 rows of 37 students each
- B. 3 rows of 26 students each
- C. 4 rows of 19 students each
- D. 6 rows of 14 students each

15. Which of the following is a multiple of 9?

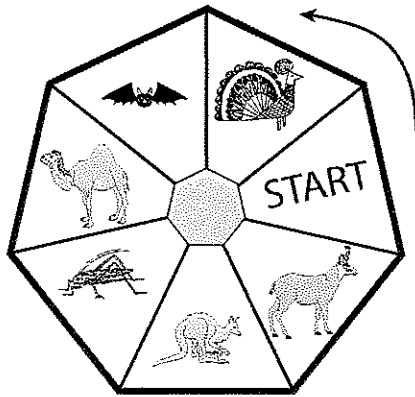
- A. 48
- B. 75
- C. 56
- D. 63

16. How many oranges are shown?



- A. 54
- B. 56
- C. 48
- D. 49

17. In a game, players move the number of spaces rolled on a die. Players move counter-clockwise around the board (see arrow), starting at START. What space will the player land on after rolling 5, 3, 2, 4, 6, 6, 1, 3, 2, 4, and 4?



- A. camel
B. grasshopper
C. kangaroo
D. peacock

18. If January 3rd fell on a Monday, what day of the week did February 1st fall on (same year)?

- A. Monday B. Tuesday C. Wednesday D. Thursday

19. One tablespoon is equal to 3 teaspoons. How many teaspoons are equal to sixty tablespoons?

- A. 30 B. 90 C. 120 D. 180

20. A rectangle has length 11 feet and width 5 feet. What is the perimeter around the rectangle?

- A. 32 feet B. 16 feet C. 55 feet D. 42 feet

21. What number goes in the box to make the statement true? $500 - \square = 400 - 128 - 64$

- A. 272 B. 312 C. 164 D. 292

22. $222 \div 6 =$

- A. 27 B. 37 C. 32 D. 42

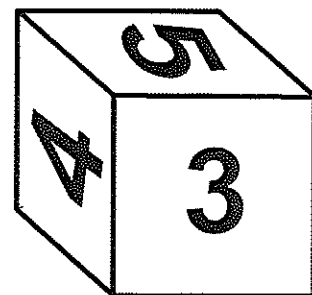
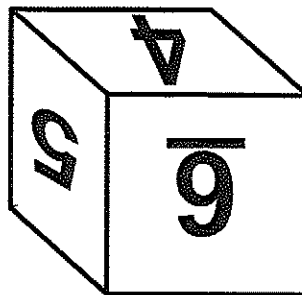
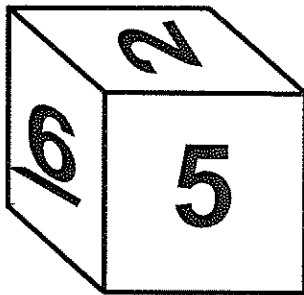
23. A restaurant has 232 plates. If the plates are placed in 8 stacks evenly, how many plates are in each stack?

- A. 1856 B. 224 C. 240 D. 29

24. Approximately how long is a regular dinner fork?

- A. 8 centimeters B. 18 centimeters C. 28 centimeters D. 80 centimeters

25. The numbers 1 through 6 are written on the faces of a cube. The same cube is shown from different views. What number is on the face opposite the face with the “3”?



- A. 1 B. 2 C. 5 D. 6

26. $28 \times 17 \div 14 =$

A. 34

B. 36

C. 42

D. 48

27. Reduce $\frac{48}{120}$ to lowest terms.

A. $\frac{1}{4}$ B. $\frac{5}{12}$ C. $\frac{1}{3}$ D. $\frac{2}{5}$

28. $5.81 - 3.97 =$

A. 1.94

B. 1.84

C. 2.84

D. 2.94

29. Two angles of a triangle are 67° and 39° . What is the third angle?A. 94° B. 84° C. 74° D. 64°

30. What is four-sevenths of 28?

A. 16

B. 12

C. 18

D. 20

31. A bag has 9 red coins and 3 blue coins. One coin is drawn out. What is the probability of drawing out a blue coin?

A. $\frac{1}{2}$ B. $\frac{1}{3}$ C. $\frac{1}{4}$ D. $\frac{1}{6}$

32. $4032 \div 72 =$
- A. 61 B. 58 C. 56 D. 54
33. How much water will fit in an empty aquarium that is 18 inches by 12 inches by 20 inches?
- A. 4320 cubic inches B. 4520 cubic inches C. 4480 cubic inches D. 4680 cubic inches
34. Bob played four basketball games and scored 14, 10, 9, and 15 points. What was the average number of points Bob scored per game?
- A. 12 B. 13 C. 10 D. 11
35. What is the smallest natural number that is a multiple of both 12 and 15?
- A. 120 B. 48 C. 30 D. 60
36. How many different 4-letter codes can be made from the letters A, B, C, D, and E, using each letter at most once?
- A. 625 B. 24 C. 120 D. 60
37. Each table has six chairs. There are 107 people that must sit at the tables. Each table must either be full or have exactly 5 people. If the number of tables with 5 people is as small as possible, how many tables will have 5 people?
- A. 4 B. 3 C. 2 D. 1

38. What is the sum of all odd numbers between 0 and 22?

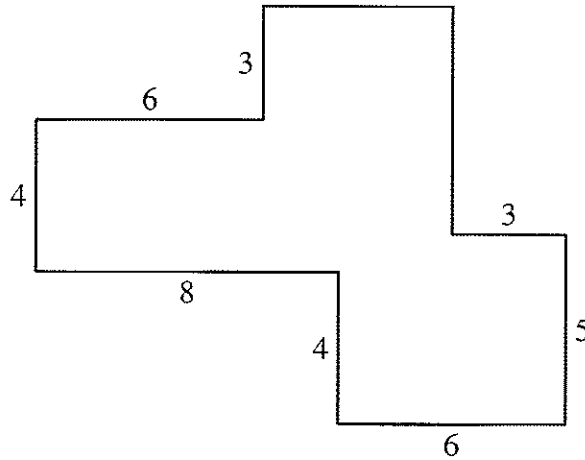
A. 119

B. 121

C. 123

D. 125

39. Find the area of this figure.



A. 84

B. 86

C. 88

D. 90

40. Carl is 6 feet 3 inches tall. Elise is 4 feet 9 inches total. How much taller is Carl than Elise?

A. 14 inches

B. 18 inches

C. 16 inches

D. 12 inches



Mathematics Grades 2-3

District Contest

Contestant Answer Sheet

GRADERS: Write scores and initial.

Score 1: _____

Score 3: _____

Score 2: _____

FINAL: _____

Contestant ID: _____ Grade Level: _____

INSTRUCTIONS: Place the PRINTED CAPITAL letter of each answer choice (A, B, C, or D) in the blank corresponding to the test item number. SCORING: +5 for each correct answer; -2 for each incorrect answer; no deduction for skipped or unanswered items. Visible erasures and mark-outs constitute a 2-point deduction ONLY if a correct answer is not written in the answer space.

- | | | |
|-----------|-----------|-----------|
| 1. _____ | 16. _____ | 31. _____ |
| 2. _____ | 17. _____ | 32. _____ |
| 3. _____ | 18. _____ | 33. _____ |
| 4. _____ | 19. _____ | 34. _____ |
| 5. _____ | 20. _____ | 35. _____ |
| 6. _____ | 21. _____ | 36. _____ |
| 7. _____ | 22. _____ | 37. _____ |
| 8. _____ | 23. _____ | 38. _____ |
| 9. _____ | 24. _____ | 39. _____ |
| 10. _____ | 25. _____ | 40. _____ |
| 11. _____ | 26. _____ | |
| 12. _____ | 27. _____ | |
| 13. _____ | 28. _____ | |
| 14. _____ | 29. _____ | |
| 15. _____ | 30. _____ | |



Mathematics Grades 2-3

District 2023

ANSWER KEY

REMINDERS: PRINTED CAPITAL letters only. SCORING: +5 for each correct answer; -2 for each incorrect answer; no deduction for skipped or unanswered items. Visible erasures and mark-outs constitute a 2-point deduction ONLY if a correct answer is not written in the answer space.

- | | | |
|--------------|--------------|--------------|
| 1. C | 16. D | 31. C |
| 2. B | 17. C | 32. C |
| 3. A | 18. B | 33. A |
| 4. A | 19. D | 34. A |
| 5. C | 20. A | 35. D |
| 6. D | 21. D | 36. C |
| 7. B | 22. B | 37. D |
| 8. D | 23. D | 38. B |
| 9. A | 24. B | 39. B |
| 10. D | 25. D | 40. B |
| 11. A | 26. A | |
| 12. C | 27. D | |
| 13. D | 28. B | |
| 14. B | 29. C | |
| 15. D | 30. A | |