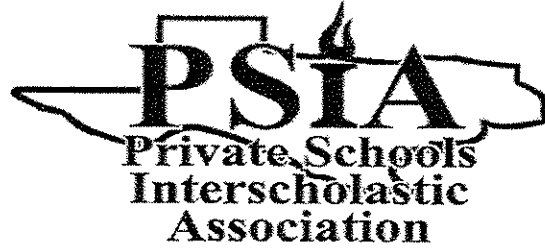
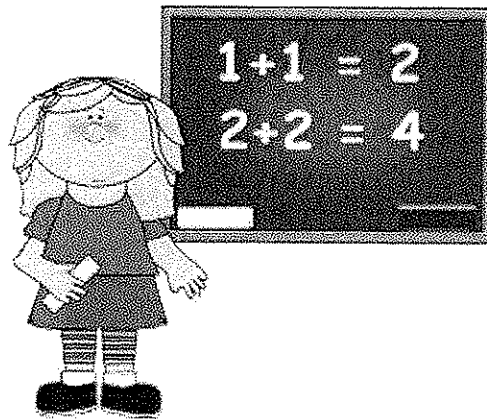


Place Contestant ID Label HERE  
BEFORE Contest Begins.



# Mathematics DISTRICT Contest

## Grades 2/3



# 2021

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.  $43 + 38 =$

A. 75

B. 81

C. 71

D. 85

2.  $94 - 77 =$

A. 19

B. 17

C. 15

D. 23

3.  $1 + 3 + 5 + 7 + 9 + 11 =$

A. 40

B. 42

C. 34

D. 36

4. What digit is in the thousand's place in the number 7532?

A. 7

B. 5

C. 3

D. 2

5.  $617 + 843 - 555 =$

A. 905

B. 875

C. 895

D. 845

6. XXXIV = \_\_\_\_\_ (Arabic numerals)

A. 360

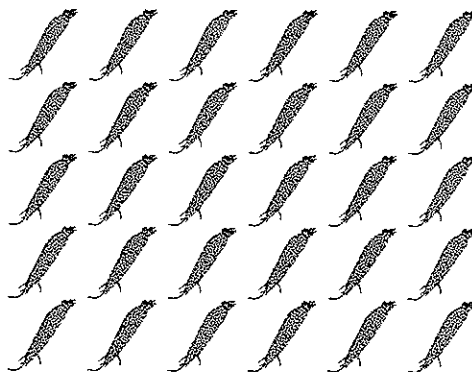
B. 304

C. 34

D. 36

7. Find the sum of sixty, sixty-six, and sixteen.
- A. 127                      B. 142                      C. 187                      D. 88
8. Frank has 88 cards. George has 141 cards. George gives some of his cards to Frank. Frank now has 117 cards. How many cards does George have left?
- A. 170                      B. 59                      C. 127                      D. 112
9. What single digit goes in each box to make the statement true?  $3\square\square + \square\square9 = 914$
- A. 7                      B. 6                      C. 5                      D. 4
10. Which of the following is the longest length?
- A. 2 miles                      B. 5 yards                      C. 12 feet                      D. 30 inches
11.  $17 \times 6 =$
- A. 112                      B. 102                      C. 92                      D. 82

12. How many carrots are shown?



A. 24

B. 25

C. 30

D. 36

13. Which of the following is a multiple of 3?

A. 19

B. 21

C. 26

D. 29

14.  $156 + 235 + 418 + 344 + 565 + 182 =$

A. 1900

B. 2000

C. 2100

D. 2200

15.  $41 \times 16 =$

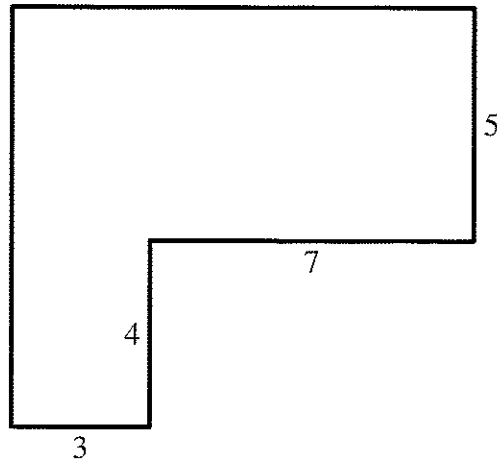
A. 656

B. 736

C. 686

D. 706

16. Find the area.



- A. 72                      B. 66                      C. 78                      D. 62

17. Which product is the same as  $15 \times 14$ ?

- A.  $20 \times 12$                       B.  $16 \times 13$                       C.  $25 \times 10$                       D.  $30 \times 7$

18. If September 1st falls on a Wednesday, what day of the week will October 1st fall on (same year)?

- A. Friday                      B. Saturday                      C. Monday                      D. Tuesday

19. What number goes in the box?  $\square - 397 = 445$

- A. 962                      B. 842                      C. 942                      D. 862

20. Marcie has 13 quarters, 15 dimes, and 18 pennies. How much money does she have?

- A. \$4.78                      B. \$4.98                      C. \$4.73                      D. \$4.93

21.  $96 \div 4 =$

- A. 36                      B. 26                      C. 24                      D. 34

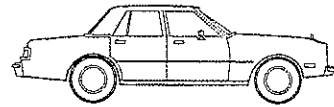
22.  $14 \times 9 \div 7 =$

- A. 22                      B. 18                      C. 16                      D. 14

23. The numbers 8, 4, 6, and 5 are arranged to form the smallest 4-digit number possible. This number is then divided by 8. What is the result?

- A. 566                      B. 576                      C. 561                      D. 571

24. What fraction of the cars are black?



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

25. Reduce  $\frac{45}{60}$  to lowest terms.

A.  $\frac{3}{10}$

B.  $\frac{5}{12}$

C.  $\frac{3}{4}$

D.  $\frac{4}{5}$

26. What is the measure of each angle of a square?

A.  $60^\circ$

B.  $120^\circ$

C.  $90^\circ$

D.  $45^\circ$

27.  $(42 \times 64) \div (7 \times 8) =$

A. 48

B. 56

C. 42

D. 36

28. A bucket has 24 red balls and 16 yellow balls. What term best describes the probability of drawing out a red ball?

A. certain

B. probable

C. unlikely

D. impossible

29.  $1288 \div 23 =$

A. 68

B. 64

C. 56

D. 52

30.  $\$7.75 + \$3.56 + \$2.89 =$

A. \$15.30

B. \$15.20

C. \$14.30

D. \$14.20

31. What is the median of the set of numbers 17, 8, 12, 16, and 23?

A. 17

B. 16

C. 12

D. 14

32. What operation goes in the box?  $15 \square (7 - 2) = 3$

A. +

B. -

C.  $\times$

D.  $\div$

33. How many faces does a cube have?

A. 4

B. 12

C. 6

D. 8

34. What is four-fifths of 20?

A. 12

B. 16

C. 18

D. 14

35. How many feet are there in 6 yards?

A. 18

B. 3

C. 12

D. 2

36. What is the remainder when 257 is divided by 7?

A. 3

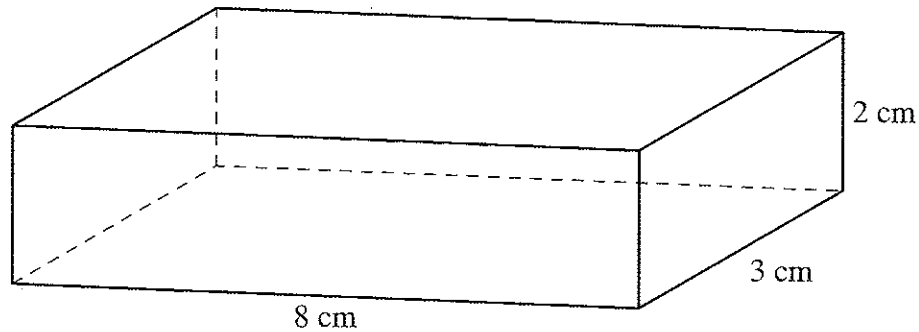
B. 4

C. 5

D. 6



37. What is the volume of the box shown?



- A.  $26 \text{ cm}^3$       B.  $92 \text{ cm}^3$       C.  $48 \text{ cm}^3$       D.  $64 \text{ cm}^3$

38.  $2 + 4 + 6 + 8 + \dots + 20 =$

- A. 100      B. 110      C. 120      D. 130

39. María made 83 cookies. She placed the cookies in bags. Each bag held either 5 or 6 cookies. If she used the fewest number of bags possible, how many bags had exactly 5 cookies?

- A. 1      B. 2      C. 3      D. 4

40. What is the smallest natural number that is both a multiple of 24 and 28?

- A. 172      B. 192      C. 144      D. 168

# PSIA Mathematics Grade 2 & 3 Contest

## Student Answer Sheet

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 is taken 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. _____	SCORE / INITIALS:
12. _____	27. _____	Grader #1: _____
13. _____	28. _____	Grader #2: _____
14. _____	29. _____	Grader #3: _____
15. _____	30. _____	Official Score: _____

Contest Director ONLY: Match school & name AFTER tests are scored: \_\_\_\_\_

**PSIA Mathematics Contest**  
**Grades 2/3**  
**DISTRICT — 2021**  
**Answer Key**

**Scoring:** +5 for each correct answer; -2 for each incorrect answer; no points are deducted for skipped or unanswered items. Deduct 2 points for erasures and mark-outs that do not result in a correct answer.

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