Place Contestant ID label here BEFORE Contest Begins

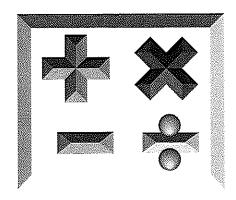
CONTESTANT ID #: ______



Mathematics

District Contest

Grades 4-5



2022

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. Choice E is "NOT" for "None of these".

$$1.585 + 497 =$$

- A. 1072
- B. 1082
- C. 1172
- D. 1182
- E. NOT

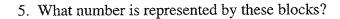
$$2. 28 + 29 + 30 + 31 + 32 =$$

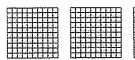
- A. 135
- B. 140
- C. 145
- D. 150
- E. NOT

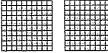
3.
$$54 \times 8 =$$

- A. 422
- B. 432
- C. 442
- D. 448
- E. NOT

- 4. How many days are there in the month of October?
 - A. 29
- B. 28
- C. 31
- D. 30
- E. NOT













- A. 834
- B. 483
- C. 438
- D. 441
- E. NOT

6.
$$\frac{3}{8} + \frac{5}{12} =$$

- A. $\frac{11}{12}$
- B. $\frac{19}{24}$

- E. NOT

7.
$$2022 - 13 - 13 - 13 - 13 - 13 =$$

- A. 1980
- B. 1957
- C. 1970
- D. 1967
- E. NOT

8	(17×9)	9) + (18)	(9×3)	= 9	Х	what	number?
o.	$(T) \vee Y$	$y + \chi x$	ハヘノル	- /	/\	WIIat	mumber.

- A. 306
- B. 296
- C. 33
- D. 35
- E. NOT

9. If T represents a single digit in
$$3T \times 8 = 312$$
, what is $T4 \times 6$?

- A. 564
- B. 504
- C. 554
- D. 514
- E. NOT

- A. 29
- B. 21
- C. 25
- D. 17
- E. NOT

11.
$$1\frac{2}{3}$$
 hours = _____ minutes

- A. 80
- B. 100
- C. 160
- D. 90
- E. NOT

- A. CXXXIV
- B. CXXXIII
- C. DXXXIV
- D. MCCCIX
- E. NOT

13.
$$(8 \times 10) + (9 \times 1) + (3 \times \frac{1}{100}) =$$
 (decimal)

- A. 89.003
- B. 890.3
- C. 89.03
- D. 89.3
- E. NOT

- A. 27
- B. 29
- C. 31
- D. 33
- E. NOT

15.
$$25 \times 47 =$$

- A. 1125
- B. 1175 C. 1225
- D. 1275
- E. NOT

- 16. One bucket had $6\frac{3}{4}$ pounds of apples. Another bucket had $5\frac{3}{8}$ pounds of apples. How many more pounds of apples did the first bucket have?
- A. $1\frac{1}{8}$ pounds B. $1\frac{5}{8}$ pounds C. $1\frac{3}{4}$ pounds D. $1\frac{3}{8}$ pounds E. NOT

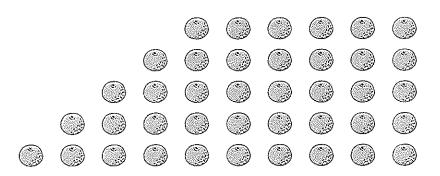
- 17. What is the remainder when 57356 is divided by 20?
 - A. 12
- B. 16
- C. 14
- D. 18
- E. NOT
- 18. A car dealership sold 37 cars in May, 48 cars in June, and 53 cars in July. How many cars on average did they sell per month?
 - A. 45
- B. 44
- C. 47
- D. 46
- E. NOT

- 19. What percent of 120 is 90?
 - A. $66\frac{2}{3}\%$
- B. 72%
- C. 75%
- D. 80%
- E. NOT

- 20. Reduce $\frac{48}{112}$ to lowest terms.
- B. $\frac{9}{16}$
- C. $\frac{3}{7}$
- E. NOT

- 7 yards 1 foot 11 inches + 5 yards 2 feet 10 inches
 - A. 13 yards 1 foot 9 inches
- B. 13 yards 2 feet 1 inch
- C. 12 yards 1 foot 9 inches
- D. 12 yards 2 feet 1 inch
- E. NOT

22. How many oranges are shown?



- A. 35
- B. 40
- C. 45
- D. 50
- E. NOT

- 23. Evaluate a = 12 and b = 5 in $a^2 2ab + b^2$.
 - A. 49
- B. 60
- C. 48
- D. 54
- E. NOT
- 24. When the numbers $\frac{7}{10}$, 0.67, $\frac{2}{3}$, 0.74, and $\frac{3}{4}$ are placed in order from least to greatest, which position in $\frac{3}{4}$ in?
 - A. 3rd
- B. 5th
- C. 4th
- D. 2nd
- E. NOT

- 25. 0.24 = _____(fraction)
 - A. $\frac{4}{15}$
- B. $\frac{7}{40}$
- C. $\frac{6}{25}$
- D. $\frac{3}{20}$
- E. NOT

- 26. Which of the following is not a divisor of 1350?
 - A. 21
- B. 27
- C. 45
- D. 54
- E. NOT

- 27. Lasagna costs \$12.00. Salad costs \$4.00. Drinks cost \$2.50. Levi ordered the lasagna with a salad and a drink. The sales tax is 8%. What was the total cost?
 - A. \$19.98
- B. \$20.18
- C. \$20.38
- D. \$20.58
- E. NOT
- 28. The perimeter of a rectangle is 80 cm. Its length is 1 cm longer than twice its width. What is its length?
 - A. 23 cm
- B. 25 cm
- C. 27 cm
- D. 29 cm
- E. NOT

29. Which transformation is shown here?



- A. reflection over a vertical line
- B. reflection over a horizontal line
- C. 90° rotation clockwise
- D. 90° rotation counterclockwise
- E. NOT
- 30. Ryan has \$8.80 in half-dollars and dimes. What is the least number of coins he could have?
 - A. 18
- B. 19
- C. 20
- D. 21
- E. NOT

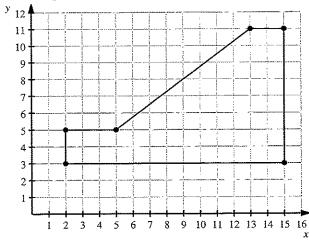
- 31. $(8-3) \times (8-4) \times (8-5) \times (8-6) \times (8-7) =$
 - A. 720
- B. 120
- C. 240
- D. 24
- E. NOT

- 32. Solve for J: 3J 5 = 16
 - A. 10
- B. 9
- C. 8
- D. 7
- E. NOT

- 33. What is the unit's digit of the result of $(8733 \times 4368) + 1809$?
 - A. 2
- B. 3
- C. 5
- D. 4
- E. NOT

- 34. What symbol goes in the box? $5\frac{3}{7} \div 2\frac{1}{2}$ $5\frac{3}{7} \div 2\frac{1}{5}$
 - A. <
- B. >
- C. =
- D. cannot be determined
- E. NOT
- 35. What digit is in the hundred-thousandth's place of the decimal representation of $\frac{77}{333}$?
 - A. 2
- B. 0
- C. 1
- D. 3
- E. NOT
- 36. A restaurant currently has 5 waiters. How many ways can the manager choose 2 waiters to work an extra shift?
 - A. 10
- B. 20
- C. 7
- D. 25
- E. NOT

37. Find the perimeter of this shape.



- A. 35
- B. 37
- C. 36
- D. 38
- E. NOT

38. What is the smallest positive 4-digit number than can be added to 58137 to make a number that is evenly divisible by 9?

A. 1002

B. 1003

C. 1004

D. 1005

E. NOT

39. If 3a + 4b = 6, what is 12 - 6a?

A. 8b

B. 4b + 2

C. 4b - 2

D. 2*b*

E. NOT

40. The ratio of Bulldog fans to Mustang fans at a recent game was 8 : 7. If 720 people attended, how many Bulldog fans were there?

A. 336

B. 348

C. 384

D. 396

E. NOT

Inspiring Student Achievement

Mathematics Grades 4-5

District Contest

т. L	Mathematics Grades 4-	GRADERS: Write score	GRADERS: Write scores and initial.			
PSTA	District Contest	Score 1:	Score 3:			
25 YEARS		Score 2:	FINAL:			
Inspiring Student Achievement	Contestant Answer Sheet					
	Contestant ID:	Grade Level:				
the test item number. SCO	he PRINTED CAPITAL letter of each ans PRING: +5 for each correct answer; -2 for erasures and mark-outs constitute a 2-point answer.	r each incorrect answer; no	deduction for skipped or			
1	16.	31.				
2.	17.	32.				
3.	18.	33.				
4.	19.	_ 34.	<u></u>			
5.		_ 35.				
6.	21.	36.				
7.	22.	37.				
8	23	38.				
9.	24	_ 39.				
10.						
11.						
12.						
13.	28					

-			
1.		16.	
2.		17.	
3.	Verget-made you will desire the state of the	18.	
4.		19.	
5.		20.	
6.		21.	
7.		22.	
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9.		24.	
10.		25.	
11.		26.	
12.		27.	
13.		28.	
14.		29.	
15.		30.	

Mathematics Grades 4-5

ANSWER KEY



District 2022

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. **B**

2. **D**

3. **B**

4. **C**

5. **C**

6. **B**

7. **B**

8. **D**

9. **A**

10. **C**

11. **B**

12. **A**

13. **C**

14. **B**

15. **B**

16. **D**

17. **B**

18. **D**

19. **C**

20. **C**

21. **A**

22. **B**

23. **A**

24. **B**

25. **C**

26. **A**

27. **A**

28. **C**

29. **B**

30. **C**

31. **B**

32. **D**

33. **B**

34. **A**

35. **D**

36. **A**

37. **D**

38. **A**

39. **A**

40. **C**