

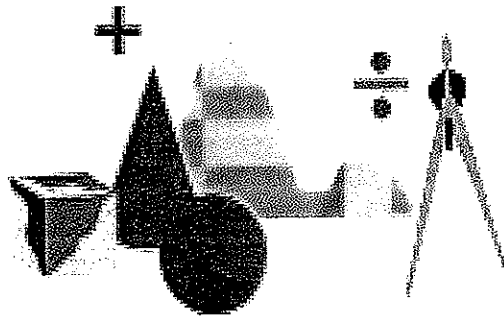
Place Contestant ID Label HERE
BEFORE Contest Begins.



Mathematics

DISTRICT Contest

Grades 2/3



2017

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. $64 + 58 =$

A. 112

B. 122

C. 116

D. 126

2. $71 - 45 =$

A. 26

B. 36

C. 28

D. 38

3. $39 + 29 + 25 =$

A. 83

B. 97

C. 93

D. 103

4. $400 - 234 =$

A. 162

B. 172

C. 166

D. 176

5. How many odd numbers are there between 4 and 40?

A. 16

B. 17

C. 18

D. 19

6. Find the sum of forty-four and four hundred four.

A. 444

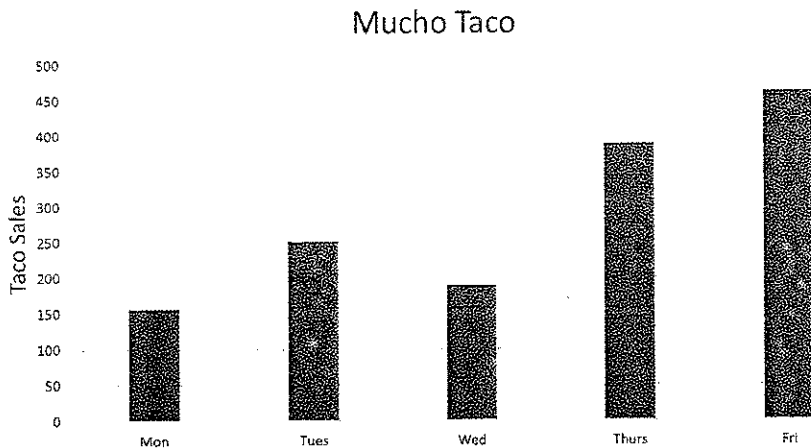
B. 448

C. 488

D. 484

7. Abby works as a waitress at an Italian restaurant. She received \$22.34 in tips on Monday and \$18.96 on Tuesday. What was the total amount received in tips?
- A. \$41.20 B. \$41.30 C. \$40.90 D. \$40.30
8. What is 23 written in Roman numerals?
- A. XXVVV B. VVIII C. XVIII D. XXIII
9. $37 + 48 + 92 - 7 - 8 - 2 =$
- A. 155 B. 160 C. 170 D. 175
10. Avery has 64 coins. Brooklyn has 48 coins. Crystal has 16 coins. Crystal gives Brooklyn 10 coins and Avery gives Crystal 9 coins. How many more coins does Avery have than Crystal?
- A. 3 B. 35 C. 45 D. 40
11. $7 \times 6 =$
- A. 49 B. 42 C. 36 D. 48
12. From the number 68,435, what is the product of the digits in the hundred's place and ten-thousand's place?
- A. 30 B. 24 C. 48 D. 20

13. The chart shows sells at Mucho Taco for the week. Approximately how many more tacos were sold on Friday than Wednesday?



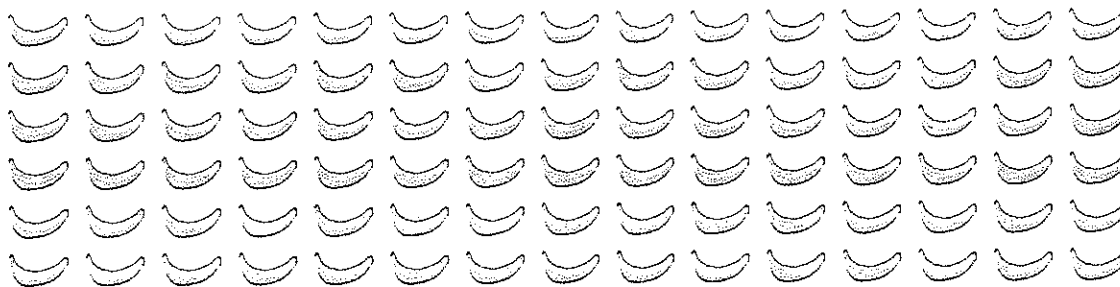
A. 310

B. 280

C. 250

D. 220

14. How many bananas are in the figure?



A. 96

B. 108

C. 84

D. 90

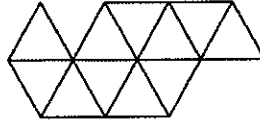
15. $327 - 295 =$

A. 32

B. 34

C. 42

D. 44

16. If the area of \triangle is 12, what is the area of the figure below?

A. 108

B. 120

C. 132

D. 144

17. What is the smallest multiple of 9 that is greater than 300?

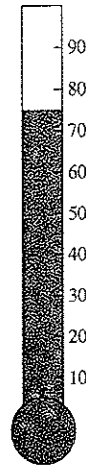
A. 302

B. 304

C. 306

D. 308

18. What temperature is given on the thermometer?



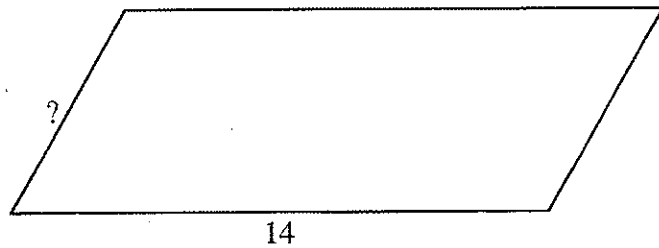
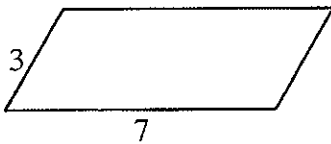
A. 70°

B. 75°

C. 60°

D. 65°

19. The two parallelograms shown are similar. What is the length of the missing side?



A. 6

B. 5

C. 8

D. 7

20. 5 yards = _____ feet

A. 30

B. 60

C. 15

D. 3

21. Jenni does chores at her house and her parents give her an allowance. She earns \$50.00 per month. How much does she earn in one year?

- A. \$700 B. \$750 C. \$500 D. \$600

22. Which fraction is equivalent to $\frac{7}{9}$?

- A. $\frac{63}{90}$ B. $\frac{56}{81}$ C. $\frac{49}{81}$ D. $\frac{42}{54}$

23. Jonathan surveyed his classmates to find out what they drink at lunchtime. How many fewer students drink water than soda?

Water	
Milk	
Soda	
Juice	

- A. 11 B. 15 C. 9 D. 18

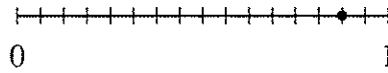
24. $45 \div 5 =$

- A. 11 B. 9 C. 8 D. 7

25. A square and rectangle have the same area. The side of the square is 10 cm. The width of the rectangle is 4 cm. What is the length of the rectangle?

- A. 25 cm B. 20 cm C. 18 cm D. 24 cm

26. What fraction is represented by the dot on the number line?



- A. $\frac{7}{8}$ B. $\frac{13}{16}$ C. $\frac{17}{18}$ D. $\frac{9}{10}$

27. What number goes in the box?

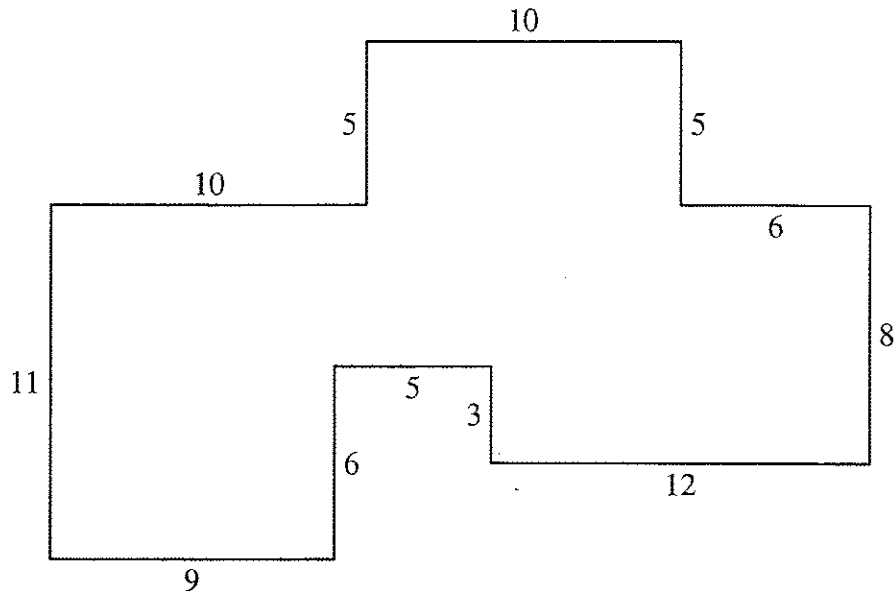
$$\square \times 8 = 3 \times 24$$

- A. 9 B. 8 C. 11 D. 12

28. What unit of measure can be used to weigh a car?

- A. inch B. teaspoon C. ton D. watt

29. Find the area.



- A. 268 B. 270 C. 272 D. 274

30. Sheena had 80 potato chips. She gives $\frac{1}{8}$ of them to Austin, $\frac{1}{4}$ of them to Lyndsey, and $\frac{1}{5}$ of them to Alexa. How many chips does Sheena have left?

- A. 28 B. 26 C. 38 D. 34

31. What Roman numeral goes in the box?

$$IX \times \square = LIV$$

- A. VI B. IV C. XI D. VII

32. Two angles of a triangle are 17° and 46° . What is the other angle?

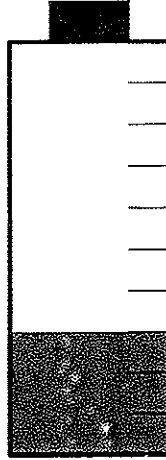
A. 113°

B. 127°

C. 129°

D. 117°

33. How full is the bottle?



A. $\frac{1}{3}$

B. $\frac{2}{5}$

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

D. $\frac{1}{4}$

34. How many vertices does a tetrahedron have?

A. 12

B. 8

C. 4

D. 6

35. $47 \times 61 =$

A. 2667

B. 2967

C. 3267

D. 2867

36. Mr. Abel is the principal of a school. He takes all 324 students to an amusement park. Four people can fit in one roller coaster car at a time. How many cars are needed so that all students can ride the roller coaster at the same time?
- A. 101 B. 91 C. 81 D. 71
37. What is true about the quotient of $3604 \div 90$?
- A. It is greater than 40.
B. It is less than 40.
C. It is equal to 40.
D. Cannot be determined
38. LaToya, Braelyn, and Maris each brought a different toy to school for recess. LaToya did not bring the hula-hoop. Braelyn did not bring the yo-yo. Neither Maris nor LaToya brought the jump rope. Who brought the hula-hoop?
- A. LaToya B. Braelyn C. Maris D. Cannot be determined
39. What is the next number in the pattern? 100, 99, 96, 91, 84, 75, ...
- A. 65 B. 66 C. 63 D. 64
40. In a game, players score either a *tracer*, worth 9 points, or a *xylor*, worth 5 points. What is the largest score in this game that is impossible to score?
- A. 31 B. 32 C. 33 D. 34

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 — 2017
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.

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