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Shakespeare's Pizza

4th Grade Test
Saturday, April 19th
April Arithmetic
(Duration: 30 minutes)

Last Name: _____ First Name: _____

Grade: _____

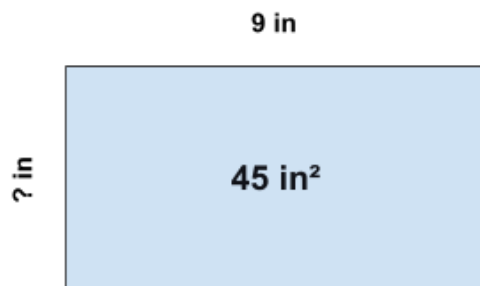
Instructions:

1. DO NOT BEGIN UNTIL YOUR PROCTOR INSTRUCTS YOU TO DO SO.
2. This is a 25 question multiple choice test. Each question is followed by answers marked A, B, C, and D. Only one of these is correct.
3. There are 5 additional tiebreaker questions at the end of the test. These will not be included in your final score, but if you and another competitor receive the same score on the test, whoever correctly answers more tiebreaker questions will be ranked higher.
4. Circle your answer. Erase any stray marks and do not circle multiple answers to one question. Only answers properly marked on the test form will be graded.
5. There is **no penalty** for guessing. Your score on this test is the number of correct answers.
6. **No aids** are permitted other than scratch paper and erasers. No problems on the test will require the use of a calculator.
7. Before beginning the test, your proctor will ask you to record certain information on the answer form.
8. If you complete the problems before time is called, use the remaining time to check your answers.
9. Remember that this is designed to be different from math tests in school. A 50% on this test is considered excellent, so don't be discouraged if you don't know how to solve the problem.

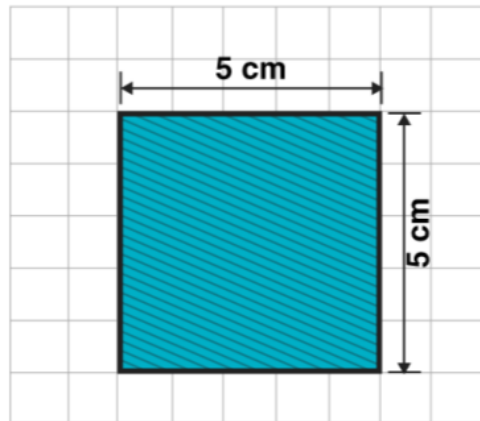
1. If you round 834.029345 to the nearest hundredth, what is the last digit?
(A) 8 (B) 0 (C) 3 (D) 2
2. A pizza is divided into 8 equal slices. If Sarah eats 3 slices and her friend eats 2 slices, what fraction of the pizza is left?



- (A) $\frac{1}{8}$ (B) $\frac{3}{8}$ (C) $\frac{5}{8}$ (D) 3
3. The number 27 is nine times as large as I. What number am I?
(A) 243 (B) 3 (C) 9 (D) 27
 4. Which of the following is NOT a prime number?
(A) 19 (B) 97 (C) 29 (D) 27
 5. What is the side length in inches of a rectangle that has a length of 9 inches and an area of 45 square inches?



- (A) 5 (B) 36 (C) 11 (D) 9
6. What is the perimeter of a square with a side length of 5 cm?

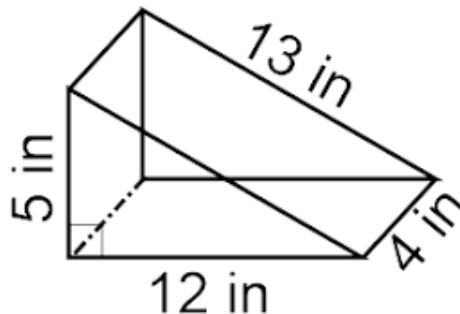


- (A) 10 cm (B) 15 cm (C) 20 cm (D) 25 cm

7. Which of the following numbers is NOT divisible by 4?

- (A) 128 (B) 256 (C) 342 (D) 400

8. Find the volume V of the triangular prism below given that its volume can be found using the formula $V = 0.5 \times \text{base} \times \text{height} \times \text{length}$.



- (A) 120 in^3 (B) 240 in^3 (C) 130 in^3 (D) 260 in^3

9. A gamer has 20 old gaming controllers that he wants to give away. If he packs 4 controllers into one box, how many boxes will he need to pack them all?



- (A) 20 (B) 10 (C) 5 (D) 15

10. A store sells apples for \$1.50. Sam bought 10 apples and returned 3. He received a full refund for the 3 apples he returned. How much money did Sam end up spending for the apples he kept?



- (A) \$12.50 (B) \$15.00 (C) \$10.50 (D) \$11.75

11. The cost of 2 books is \$3. How much money will 7 books cost?



- (A) \$10.50 (B) \$15.50 (C) \$21 (D) \$3

12. What is the decimal equivalent of $\frac{3}{8}$?

- (A) 0.125 (B) 0.35 (C) 0.375 (D) 0.388

13. A square hot tub has all equal side lengths of 12 feet, what is the total area of the hot tub?



- (A) 48 square feet (B) 120 square feet (C) 72 square feet (D) 144 square feet

14. LeBron can sing 1 song in 3 minutes, but between each song, he has to take a 10-minute break to play basketball with Bronnie. How many minutes will it take LeBron to finish singing 6 songs? Note that he doesn't take a break after singing his last song.



- (A) 18 (B) 33 (C) 68 (D) 78

15. A school bus can hold 40 students total. If 12 students are already on the bus, and 2 of them will leave soon, what is the maximum number of students that can get on the bus after the 2 students leave?



- (A) 18 (B) 25 (C) 30 (D) 28

16. Amira has 5 boxes. There are 12 balls in each box. She takes 3 balls out of each box. Choose the calculation that shows the total number of balls in the boxes now.



- (A) $(5 \times 12) - 3$ (B) $5(12 - 3)$ (C) $5 \times 12 - 3$ (D) $(5 \times 3) - 12$

17. When Gabby was 12 years old, her little sister Maya was a quarter of her age. Gabby is now 16, how many years old is Maya now?



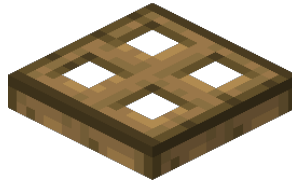
- (A) 4 (B) 7 (C) 12 (D) 8

18. A recipe calls for 4 cups of flour for every 2 cups of sugar. If you use 12 cups of flour, how many cups of sugar do you need?

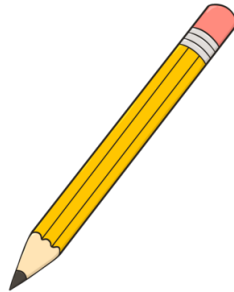


- (A) 6 (B) 8 (C) 4 (D) 12

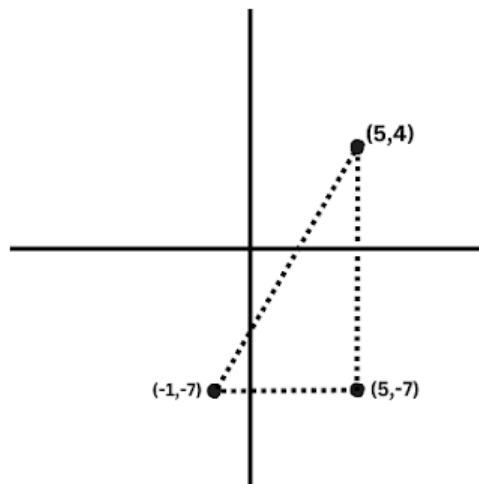
19. Jonas likes to play Minecraft. He is trying to build a house that requires 8 oak trapdoors. If 6 oak planks make 2 oak trapdoors, how many oak planks in total would Jonas need to make those 8 oak trapdoors?



- (A) 16 (B) 18 (C) 22 (D) 24
20. If 5 pencils cost \$3.25, how much will 8 pencils cost, assuming the price per pencil stays the same?



- (A) \$5.20 (B) \$4.75 (C) \$6.50 (D) \$5.80
21. Solve for the absolute area of the triangle on the graph.



- (A) 33 units² (B) 66 units² (C) 28 units² (D) 72 units²

22. A video game originally costs \$60. It is on sale for 25% off. How much is the current sale price of the video game?



- (A) \$15 (B) \$40 (C) \$50 (D) \$45

23. A car travels at a speed of 60 miles per hour for 2.5 hours. How much distance did it travel?



- (A) 120 miles (B) 130 miles (C) 140 miles (D) 150 miles

24. A car travels a total distance of 120 miles in 2 hours. What is the average speed of the car in miles per minute?



- (A) 1 (B) 60 (C) 2 (D) 45

25. A bag contains 5 red marbles, 3 blue marbles, and 2 green marbles. What is the probability of picking a blue marble at random?



- (A) $\frac{1}{10}$ (B) $\frac{1}{2}$ (C) $\frac{3}{5}$ (D) $\frac{3}{10}$

TIEBREAKER: If you and another competitor receive the same score on the test, whoever correctly answers more tiebreaker questions (the questions below) will be ranked higher.

1. What is $1 + 2 + 3 + \cdots + 40 + 41$?
(A) 87 (B) 820 (C) 840 (D) 861
2. A $4\text{ cm} \times 4\text{ cm} \times 4\text{ cm}$ cube is painted red on all sides and then cut into 64 smaller 1 cm cubes. How many small cubes have no red paint at all?
(A) 2 (B) 4 (C) 8 (D) 16
3. A pizza shop offers 4 different meat choices, 3 different vegetable choices, and 2 different crust types. Grace wants her pizza to have 1 meat choice, 1 vegetable choice, and 1 crust type. How many different pizza options can Grace make?
(A) 7 (B) 12 (C) 14 (D) 24
4. You roll a fair dice three times. What is the probability that you roll heads every time?
(A) $\frac{1}{8}$ (B) $\frac{1}{4}$ (C) $\frac{1}{2}$ (D) $\frac{1}{3}$
5. Alice can paint a house in 6 hours. Bob can paint the same house in 4 hours. How many hours will it take them to paint the house together?
(A) 2 (B) 2.4 (C) 3 (D) 3.5