

**5th Grade Individual**

1. Natalie owns a cat and a dog. Her dog weighs  $3\frac{1}{3}$  times as much as her cat. If her cat weighs  $4\frac{2}{3}$  pounds, how much does her dog weigh?  
A.  $\frac{5}{7}$  pounds B.  $7\frac{11}{12}$  pounds C.  $12\frac{1}{6}$  pounds D.  $15\frac{5}{9}$  pounds
2. An ice cream store sells exactly \$1,029 worth of their new ice cream. If each unit of product costs the same, what could be the price of each unit of product?  
A. \$6 B. \$7 C. \$8 D. \$9
3. Which of the following is the prime factorization of the number 486?  
A.  $2^4 \times 3$  B.  $2 \times 3^4$  C.  $2 \times 3^5$  D.  $2^2 \times 3^5$
4. A triangle has two angles measuring  $56^\circ$  and  $21^\circ$ . What is the measure of the third angle?  
A.  $13^\circ$  B.  $103^\circ$  C.  $124^\circ$  D.  $159^\circ$
5. How many faces are on a rectangular prism?  
A. 4 B. 6 C. 8 D. 10
6. Jasmine needs a new coat. She goes to the store and sees they have a 25% off sale. If the coat costs \$36.30 with the discount applied, what is the original cost of the coat?  
A. \$27.23 B. \$45.38 C. \$48.40 D. \$63.53
7. An 8-pack of poster boards costs \$10.32. What is the price of one poster board?  
A. \$1.29 B. \$1.31 C. \$1.35 D. \$2.79
8. Ami has a busy schedule. In the morning, she wakes up at 7:25 am. She arrives at school 55 minutes later. She goes to school for 8 hours. Then, she goes to math team practice, which lasts an hour and a half. After math team practice, she gets back home 30 minutes later. She eats dinner for an hour and then does homework for

3 hours. After taking an hour to get ready for bed, she goes to sleep. At what time does Ami go to sleep?

A. 9:20 pm B. 9:30 pm C. 10:20 pm D. 10:30 pm

9. If the mean of the set  $\{3, 4, 8, 2, 9, 11, 6, x\}$  is 6, what is the value of the missing number?

A. 2 B. 3 C. 4 D. 5

10. In a stadium, there are 36 sections. If each section can fit 377 people, how many people can the stadium hold?

A. 11,567 B. 12,563 C. 13,572 D. 14,673

11. Find the standard decimal form of:

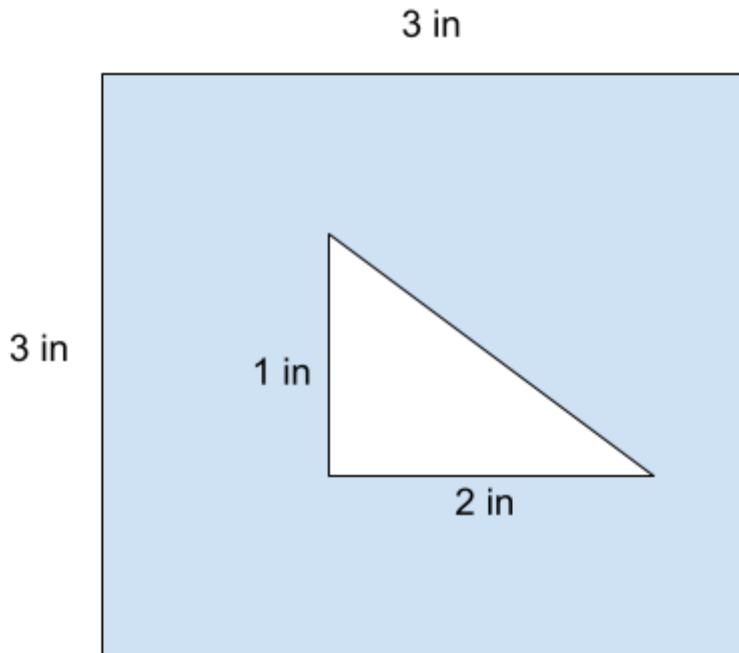
$$2 \times 1 + (8 \times \frac{1}{10})$$

A. 2.0 B. 2.2 C. 3.6 D. 5.2

12. Thomas has 1,332 pieces of candy. If he distributes it evenly between himself and 36 classmates, how many does each person get?

A. 36 B. 37 C. 46 D. 47

13. What is the area of the shaded region?



- A.  $1 \text{ in}^2$  B.  $8 \text{ in}^2$  C.  $9 \text{ in}^2$  D.  $10 \text{ in}^2$
14. What is the surface area of a cube with a side length of 6 in?
- A.  $36 \text{ in}^2$  B.  $64 \text{ in}^2$  C.  $216 \text{ in}^2$  D.  $1296 \text{ in}^2$
15. Andrew takes a break from work and travels for 1 year, 8 months, 2 weeks, and 4 days. Assuming a month is equal to 30 days, how many days did Andrew travel for?
- A. 618 days B. 623 days C. 628 days D. 637 days
16. Find the next number in the sequence: 3, 9, 27, 81...
- A. 243 B. 246 C. 261 D. 280
17. What is the value of  $x$  if  $3x + 2 = 8$ ?
- A. 1 B. 2 C. 3 D. 4
18. Julia wants to buy a remote control car that costs \$19.39 with tax included. She realizes that she only has quarters, nickels, dimes, and pennies in her piggy bank. Assuming she uses the least amount of coins possible, how many of each coin does she use?
- A. 76 quarters, 3 dimes, 1 nickel, and 4 pennies

- B. 76 quarters, 3 dimes, and 9 pennies
- C. 77 quarters, 2 nickels, and 4 pennies
- D. 77 quarters, 1 dime, and 4 pennies

19. How many different ways can the letters P, S, R, and Y be arranged?

- A. 23 B. 24 C. 32 D. 33

20. At Pensacola High School, the soccer practice field has a length that is 15 meters more than its width. If the area of the practice field is  $6,750 \text{ m}^2$ , what is the length of the field?

- A. 60 B. 75 C. 90 D. 105

21. Marjorie's baking recipe calls for  $\frac{3}{4}$  cups of flour. For her school bake sale, she wants to bake 5 times the normal amount. How many cups of flour will she need?

- A. 2.75 B. 3.00 C. 3.50 D. 3.75

22. Evaluate the following expression:

$$2(4)^2 + 3^2 \times 7$$

- A. 95 B. 128 C. 287 D. 511

23. If there are 3 red marbles, 7 purple marbles, and 1 blue marbles in a bag, what is the ratio of purple marbles to red marbles?

- A. 7:11 B. 11:7 C. 7:3 D. 3:7

24. How do you write  $8.6 \times 10^{-3}$  in standard form?

- A. 0.086 B. 0.0086 C. 8,600 D. 86,000

25. What is the sum of the roman numerals XVI, CXVIII, and LXXI?

- A. 157 B. 178 C. 189 D. 205

26. According to the stem and leaf plot, how many boxes had 37 items in them?

Number of Items per box
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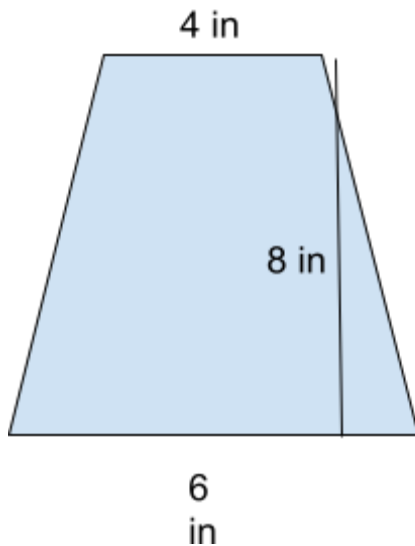
Stem	Leaf
2	0 1
3	0 2 2 3 6 6 7 7 7 8 9
4	0 0 3 4 6 7 7 8
5	1 3 3 5 7 8 8

A. 0 B. 1 C. 2 D. 3

27. A dog trainer has a 70% success rate in training their dogs. If they took in 70 dogs, how many dogs were NOT trained properly?

A. 21 B. 27 C. 43 D. 49

28. What is the area of the trapezoid?



A.  $32 \text{ in}^2$  B.  $36 \text{ in}^2$  C.  $40 \text{ in}^2$  D.  $48 \text{ in}^2$

29. If the area of a circle is equal to  $\pi r^2$ , what is the area of a circle with diameter 6? Use 3.14 for  $\pi$ .

A. 27.61 B. 28.26 C. 108.72 D. 113.04

30. What is the probability of rolling a 6 on a die AND flipping a coin and getting tails?

A.  $\frac{1}{12}$  B.  $\frac{1}{6}$  C.  $\frac{1}{3}$  D.  $\frac{1}{2}$

**Answer Key**

1. D

2. B

3. C

4. B

5. B

6. C

7. A

8. C

9. D

10. C

11. C

12. A

13. B

14. C

15. B

16. A

17. B

18. D

19. B

20. C

21. D

22. A

23. C

24. B

25. D

26. D

27. A

28. C

29. B

30. A