

11. When 700 students from Genius M.S. played SCOOZ, 90% of them scored “proficient or above.” What number of students at Genius M.S. did not score “proficient or above?”

Answer: 70 (students)

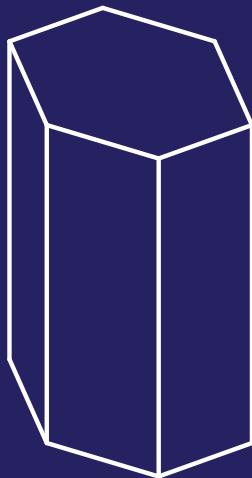
12. If the operation Z is defined as  $a \text{ Z } b = b + 10a - a^2$ , what is the value of  $2 \text{ Z } 6$ ?

Answer: 22

13. Aditi can walk 1.7 miles in half an hour. At the same constant speed, how many hours would it take her to walk 17 miles?

Answer: 5 (hours)

14. A right hexagonal prism has a height of 3 feet and each edge of the hexagonal bases is 6 inches. What is the sum of the areas of the non-hexagonal faces of the prism, in square feet?



Answer: 9 ( $\text{ft}^2$ )

15. What common fraction is halfway between  $\frac{1}{8}$  and  $\frac{1}{10}$  on a number line?

Answer:  $\frac{9}{80}$

16. A rectangular quilt's length is twice the length of a rectangular picture, and the quilt's width is three times the width of the same picture. The area of the picture is 2 square feet. What is the area of the quilt, in square feet?

Answer: 12 ( $\text{ft}^2$ )

17. Each year, starting with 1999, five new state quarter designs were introduced. How many different state quarter designs were introduced by the end of 2005?

Answer: 35 (designs)

18. In a convex quadrilateral, the measure of the largest angle is twice the measure of the smallest angle, and the other two angles are both right angles. How many degrees are in the largest angle?

Answer: 120 (degrees)

19. What is the sum of the six positive integer factors of 18?

Answer: 39

20. Lyndy conducted a survey of the 300 students in her school. She found that 60 students own dogs, while only 30 students own cats. What percent of the students own cats?

Answer: 10 (percent)