Career
CASAS
Reading, Math, and Listening Assessments Exam

Latest Version: 6.0

Question: 1

According to the author, how would attendance law reform help with grades?

A. Report cards would more accurately reflect student performance.
B. Grades would improve due to there being fewer distractions in class.
C. Students would perform better, causing grades to improve automatically.
D. Teachers could use harder tests, making high test scores more meaningful.

Answer: A

Explanation:
The author mentions in his third point that report cards would begin to show what they are supposed to, likely because teachers would start taking grading more seriously rather than just passing students along whether the students were prepared or not. Answer B may be a positive byproduct of changing these laws, but an increase in grades was not mentioned as a result of changing the law. Similarly, answers C and D are not included in the discussion, which leaves A as the proper answer.

Question: 2

Approximately what speed does the speedometer read, in MPH?

A. 55 MPH
B. 72 MPH
C. 88 MPH
D. 98 MPH

Answer: A

Explanation:
The mark halfway between 40 and 60 is 50. since (40 + 60)/2 = 50. The mark indicated by the needle is halfway between 50 and 60, so this mark corresponds to 55 because (50 + 60)/ 2 = 55. Thus, the speedometer reads 55 MPH.

Question: 3

The speed limit on a road is 75 MPH. This most closely corresponds to what speed in KPH?

A. 42 KPH
B. 60 KPH
C. 120 KPH

D. 140 KPH

Answer: C

Explanation:
The mark for 70 MPH is halfway between 60 and 80. since (60 + 80)/ 2 = 70. and the mark for 75 is halfway between 70 and 80, since (70 + 80)/2 = 75. A line from the 75 MPH mark to the base of the needle would pass very close to the 120 KPH mark

Question: 4

A decrease from 120 KPH to 40 KPH is a decrease of MPH.

A. 30
B. 40
C. so
D. 60

Answer: C

Explanation:
A line starting from the base of the needle and going past the 120 KPH mark would eventually pass close to the 75 MPH mark. Another line starting from the base of the needle and going past the 40 KPH would pass close to the 25 MPH mark The decrease in speed would be the difference between the speeds 75 MPH and 25 MPH, which we can express as 75 — 25 = 50. Thus, the decrease is 50 MPH.

Question: 5

How many wireless keyboards did Trey order?

A. 1
B. 2
C. 6
D. 18

Answer: C

Explanation:
We find the line item for "Wireless Keyboard" in the first column and trace it to the "QUANTITY" column to find that Trey ordered 6 wireless keyboards.

Question: 6

Simplify the expression (10 + 4 x 3) + 2.

A. 22
B. 21
C. 6
D. 11

Answer: D

Explanation:
When there are two operations within parentheses. we must go through the order of operations within the parentheses first, before continuing with the rest of the expression. Because multiplication comes before addition, we must start by finding the product of 4 and 3, which is 12. Next, we add 10 and 12 to get 22. Finally, we can divide 22 by 2 to arrive at our final answer, 11.

Question: 7

A recipe calls for 2 cups of water for every 6 cups of flour. Josie wants to make a smaller batch using only 2 cups of flour. How much water should she use?

a. $\frac{1}{2}$ cup
b. 2 cups
c. $\frac{2}{3}$ cup
d. 12 cups

Answer: C

Explanation:

To start, we can write our ratio in fractional form as $\frac{2 \text{ cups of water}}{6 \text{ cups of flour}}$. We know Josie wants to lessen the flour to only 2 cups, making our proportion $\frac{2 \text{ cups of water}}{6 \text{ cups of flour}} = \frac{x \text{ cups of water}}{2 \text{ cups of flour}}$. To find the value of x, we can cross multiply the two diagonal values we know, 2 and 2, and divide their product by the remaining value, 6. $2 \times 2 = 4$, and $4 \div 6 = \frac{4}{6}$, which simplifies to $\frac{2}{3}$. This means Josie should use $\frac{2}{3}$ of a cup of water for every 2 cups of flour.

Question: 8

The ratio of boys to girls in a math class is 3 to 4. If there are 12 boys in the class, how many total students are in the class?

A. 28 students
B. 16 students
C. 7 students
D. 24 students

Answer: A

Explanation:

We know the ratio of boys to girls is 3 to 4, which means there are 3 boys for every 7 students (because when there are 3 boys, there will be 4 girls, for a total of 7 students). We can write the ratio of boys to total students as $\frac{3}{7}$. We also know that there are 12 boys in the class, so we can create the proportion $\frac{3}{7} = \frac{12}{x}$. To solve for x, we must determine how many times greater 12 is than 3. Because 12 is four times greater than 3, we need to multiply 7 by 4 to complete our proportion. The product of 7 and 4 is 28, so we know there are 28 total students in the class.

Question: 9

Justin wants to recarpet his rectangular bedroom. The bedroom has a length of 12 feet and a width of 10 feet. Which of the following measures should Justin calculate to determine the amount of carpet he will need?

A. The perimeter of his bedroom
B. The area of the floor of his bedroom
C. The volume of his bedroom
D. The surface area of his bedroom

Answer: B

Explanation:
Area is the measure we use to calculate the number of square units that will fit into a plane surface.
To recarpet his bedroom, Justin must calculate the total number of square feet that must be covered in order to fill the floor space. To find area of his bedroom 's floor, Justin should multiply the length of his bedroom, 12 feet, by the width, 10 feet. Because 12 x 10 = 120, Justin will need 120 square feet of carpet for his bedroom.

Question: 10

A Tyrannosaurus rex is believed to have weighed 18,000 pounds. How can this weight be represented in scientific notation?

a. 18×10^4 lb
b. 1.8×10^{-4} lb
c. 1.8×10^4 lb
d. 18×10^{-4} lb

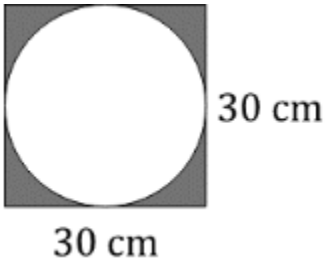
Answer: C

Explanation:

Scientific notation is a method of writing very large or very small numbers. To convert a number into scientific notation, we must first move the decimal point either left or right until we have a value that is greater than or equal to 1 and less than 10. For the number 18,000, we must move the decimal point four place values to the left, resulting in the value 1.8. Because we moved our decimal point four places to the left, our exponent will be positive 4. (Note that if we had moved our decimal point 4 places to the right, we would have expressed our exponent as -4.) Finally, we are able to write our value in scientific notation as 1.8×10^4.

Question: 11

What is the area of the shaded region in the figure shown below?



a. 177 cm^2
b. 181 cm^2
c. 187 cm^2
d. 193 cm^2

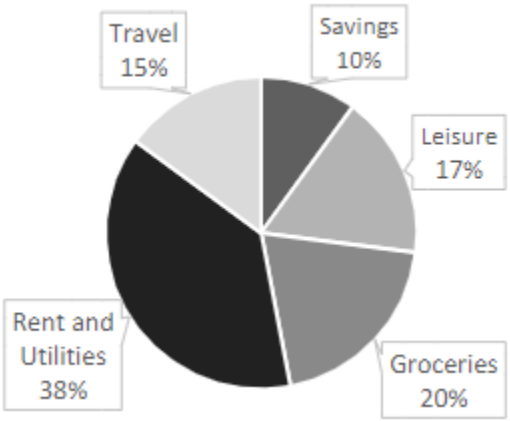
Answer: D

Explanation:

The area of the square is equal to $(30)^2$, or 900 square centimeters. The area of the circle is equal to $\pi(15)^2$, or approximately 707 square centimeters. The area of the shaded region is equal to the difference of the area of the square and the area of the circle, or 900 cm^2 − 707 cm^2, which equals 193 cm^2. So, the area of the shaded region is about 193 cm^2.

Question: 12

Kendra uses the pie chart below to represent the allocation of her annual income. Her annual income is $40,000.



Which of the following statements is true?

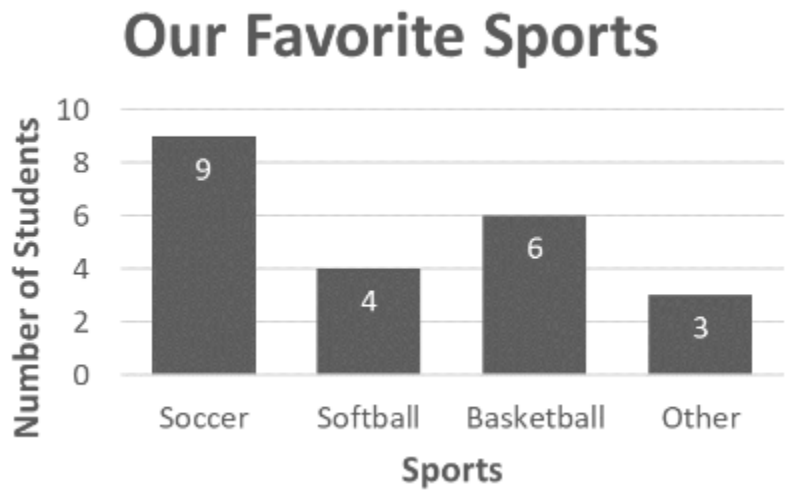
A. The amount of money she allocates to travel and savings is more than SI 1,000.
B. The amount of money she allocates to rent and utilities is approximately $15,000.
C. The amount of money she allocates to groceries and savings is more than S 13,000.
D. The amount of money she allocates to leisure is less than 55,000.

Answer: B

Explanation:
To find the true statement, we simply do each required calculation. We find that the amount Kendra spends on rent and utilities is equal to 540,000 x 0.38 = 515,200, which is approximately $15,000.

Question: 13

Based on the bar graph below, determine the number of students that were surveyed. Our Favorite Sports



A. 9 students
B. 23 students
C. 19 students
D. 22 students

Answer: D

Explanation:
To determine the number of students surveyed, we must find the sum of the bar heights. When we look at the height of each bar, we can see that 9 students chose soccer, 4 chose softball, 6 chose basketball, and 3 replied "other." The sum of 9 + 4 + 6 + 3 = 22, so we can conclude that 22 students were surveyed.

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