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## Question: 1

John needed 13.71 feet of wire to fix a lamp. He bought  $14\frac{1}{2}$  feet of wire at the hardware store. How much wire did he have left over after fixing the lamp?

- A.  $\frac{3}{4}$  ft
- B. 0.29 ft
- C. 0.81 ft
- D. 1.29 ft
- E. 0.79 ft

**Answer: E**

Explanation:

The problem requires 13.71 feet of wire be subtracted from the total number of feet purchased, or 14.5 feet. The difference is 0.79. John had 0.79 feet of wire left over after fixing the lamp.

## Question: 2

A music club offers 7 CDs for \$24 to new members. The usual price of CDs is \$12 each. If Maria joins the club and gets her 7 CDs at the discounted price instead of buying them individually, how much is her total savings?

- A. \$53
- B. \$24
- C. \$84
- D. \$60
- E. \$79

**Answer: D**

Explanation:

A non-member must pay  $\$12 \times 7$ , or \$84, for all 7 CDs. A member pays \$24 for all 7 CDs. Thus, Maria saves  $\$84 - \$24$ , or \$60, by joining the club.

## Question: 3

$$7,600,000 - 24,000 = ?$$

- A.  $7.576 \times 10^6$
- B.  $7.36 \times 10^6$
- C.  $7.84 \times 10^6$
- D.  $7.576 \times 10^5$
- E.  $7.84 \times 10^5$

**Answer: A**

Explanation:

The difference is equal to 7,576,000. This number can be written in scientific notation by moving the decimal point behind the 7, in the millions place, and counting the number of digits to the right of the decimal point. The number, written in scientific notation, is  $7.576 \times 10^6$ .

### Question: 4

Which of the following expressions is equivalent to  $3 < x^{\frac{1}{2}} < 5$ ?

- A.  $3 < x < 5$
- B.  $3 < x < 15$
- C.  $9 < x < 15$
- D.  $9 < x < 25$
- E.  $3 < x < 25$

**Answer: D**

Explanation:

The inequality can be rewritten as  $3 < \sqrt{x} < 5$ . Each term in the inequality can be squared, in order to eliminate the square root symbol. Thus, the inequality can be written as  $(3)^2 < (\sqrt{x})^2 < (5)^2$ , or  $9 < x < 25$ .

### Question: 5

$3 \times \sqrt[3]{27} = ?$

- A. 3
- B. 81
- C. 27
- D. 9
- E. 8

**Answer: D**

Explanation:

The rule of exponents states that  $x^{\frac{a}{b}} = \sqrt[b]{x^a}$ . Thus,  $\sqrt[3]{27} = 27^{\frac{1}{3}}$ , or 3. Thus, the product can be written as  $3 \times 3$ , or 9.

### Question: 6

What is the value of x if  $\frac{7}{11} = \frac{x}{7}$ ?

- A. 7
- B.  $\frac{49}{11}$
- C. 77
- D. 121
- E.  $\frac{11}{7}$

**Answer: B**

Explanation:

A proportion in the form  $\frac{a}{b} = \frac{c}{d}$  can be rewritten as  $ad = bc$ . Thus, the given proportion can be solved for x as follows:  $11x = 49$ , where  $x = \frac{49}{11}$ .

### Question: 7

If 12 gallons of gasoline costs \$48.75, what is the cost of 13 gallons of gasoline?

- A. \$50.25
- B.  $\frac{12}{13} \times \$48.75$
- C.  $\frac{13}{12} \times \$48.75$
- D.  $\frac{\$48.75}{12}$
- E.  $\frac{12 \times 13}{\$48.75}$

**Answer: C**

Explanation:

The problem can be represented by the proportion,  $\frac{12}{\$48.75} = \frac{13}{x}$ . The solution is equal to  $\frac{\$48.75 \times 13}{12}$ , or  $\frac{13}{12} \times \$48.75$ .

### Question: 8

Fifty-five people take a math exam. Eighty percent of them pass. How many people failed the exam?

- A. 5.5
- B. 10
- C. 16
- D. 44
- E. 11

**Answer: E**

Explanation:

The number of people who passed the exam is equal to  $0.80 \times 55$ , or 44. Since 55 people took the exam, the number of people who failed the exam is equal to  $55 - 44$ , or 11.

### Question: 9

Three quarters of the participants in a bicycle race crossed the finish line in less than 3 hours. How many finished in less than 3 hours?

- A. 25%
- B.  $\frac{3}{4}\%$
- C. 75%
- D. 67%
- E. 50%

**Answer: C**

Explanation:

In order to convert the fraction,  $\frac{3}{4}$ , into a percent, the fraction must first be converted to a decimal. In order to do so, the denominator of the fraction must be divided into its numerator;  $3 \div 4 = 0.75$ . The decimal, 0.75, can be converted to a percent by moving the decimal point two places to the right. Thus, 75% of the participants crossed the finish line in less than 3 hours.

### Question: 10

Ricky took the SAT math test four times. The first three scores totaled 1900. After fourth time, his average score was 650. What score did he get the fourth time?

- A. 600
- B. 650
- C. 700
- D. 750
- E. 800

**Answer: C**

Explanation:

Since the first three SAT scores summed to 1900, the following equation can be used to find the score on the fourth exam:  $\frac{1900+x}{4} = 650$ . The equation can be solved for  $x$  by multiplying both sides of the equation by 4. Doing so gives:  $1900 + x = 2600$ . Subtracting 1900 from both sides of the equation gives  $x = 700$ . Thus, he scored 700 on his fourth SAT exam.

### Question: 11

Three quarters of the students running a 100-yard race finished with an average time of 16 seconds. The remaining 25% of students finished with an average time of 12 seconds. What was the average time overall?

- A. 13 seconds
- B. 14 seconds
- C. 15 seconds
- D. 16 seconds
- E. 17 seconds

**Answer: C**

Explanation:

The average time can be represented by the expression,  $\frac{3}{4}(16) + \frac{1}{4}(12)$ , which equals the sum of 12 and 3, or 15. Thus, the average time overall was 15 seconds.

### Question: 12

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Manuella makes \$21 in commissions over the first three hours that she worked selling magazines. How many dollars must she make during the fourth hour to average \$8 an hour for the full four hours?

- A. \$8
- B. \$11
- C. \$12
- D. \$15
- E. \$10

<b>Answer: B</b>
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Explanation:

The evaluation of the equation, for an  $x$ -value of  $-2$ , gives the following:  $y = \frac{(-2)^4 - 2}{(-2)^2 + 1}$ , which reduces to  $y = \frac{16 - 2}{4 + 1}$ , or  $y = \frac{14}{5}$ . The improper fraction,  $\frac{14}{5}$ , can also be written as the mixed number,  $2\frac{4}{5}$ . Thus,  $y = 2\frac{4}{5}$ .

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