

Which table shows a proportional relationship between x and y ?

(A)

x	y
3	4
6	10
9	16
12	22
15	28

(C)

x	y
4	2
8	4
12	8
16	14
20	20

(B)

x	y
12	6
14	12
16	18
18	24
20	30

(D)

x	y
5	1
10	2
15	3
20	4
25	5

What is the value of $\frac{3}{7} \times 0.1 \div \frac{5}{21}$?

- (A) $\frac{1}{98}$
- (B) $\frac{9}{50}$
- (C) $\frac{9}{5}$
- (D) $\frac{18}{1}$

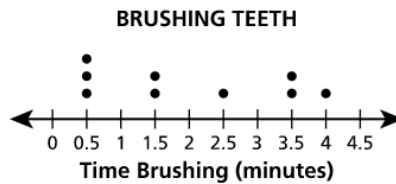
An object travels along a horizontal straight path at a constant rate. The object travels $\frac{1}{20}$ of the length of the path in $\frac{3}{4}$ second. At that rate, how many seconds does it take the object to travel the entire length of the path?

- (A) 15
- (B) $15\frac{3}{4}$
- (C) 20
- (D) $20\frac{3}{4}$

What is the exact decimal equivalent of $\frac{7}{12}$?

- (A) 0.583
- (B) $0.58\bar{3}$
- (C) 1.714
- (D) $1.71\bar{4}$

The students in a class collected data on the number of minutes per day some kids spend brushing their teeth. Their data is shown in the dot plot below.



Which statement correctly describes these data?

- (A) The median is 0.5 and the mean is less than the median.
- (B) The median is 0.5 and the mean is greater than the median.
- (C) The median is 1.5 and the mean is less than the median.
- (D) The median is 1.5 and the mean is greater than the median.

Which situation results in a final value of zero?

- (A) the overall change in temperature when the temperature goes from -10°F to 10°F
- (B) the total profit made when a person buys an item for \$2.25 and then sells the item for \$2.25
- (C) the overall change in altitude of a hot air balloon after rising 21 kilometers from sea level
- (D) the total distance a person travels when he bikes 3.1 miles to school and then bikes 3.1 miles back home

Which expression is equivalent to $2(x + 7) - 18x + \frac{4}{5}$?

- (A) $20x + \frac{74}{5}$
- (B) $20x + \frac{139}{5}$
- (C) $-16x + \frac{74}{5}$
- (D) $-16x + \frac{139}{5}$

Todd orders pictures from a photographer. Each picture costs \$7.50. A one-time shipping fee of \$3.25 is added to the cost of the order. The total cost of Todd's order before tax is \$85.75. How many pictures did Todd order?

Show your work.

Answer

pictures

A company starts to track the number of phone calls received each month. Information about the number of phone calls the company received the first three months of tracking is listed below.

- During the first month, the company received 4,264 phone calls.
- During the second month, the company received 25% more phone calls than in the first month.
- During the third month, the company received 6,396 phone calls.

What was the percent increase in the number of phone calls from the second month to the third month?

Show your work.

A math input interface with a toolbar containing various mathematical symbols and operators. The toolbar includes: undo, redo, a drawing tool, plus, minus, multiply, divide, equals, less than, less than or equal to, greater than, greater than or equal to, pi, percent, double quote, fraction, square root, square, cube, fourth root, fifth root, sixth root, seventh root, eighth root, ninth root, tenth root, eleventh root, twelfth root, absolute value, parentheses, curly braces, square root, and a square root symbol. Below the toolbar is a large, empty white text area for showing work.

Answer

A math input interface with a toolbar containing various mathematical symbols and operators. The toolbar includes: undo, redo, a drawing tool, fraction, square, cube, fourth root, fifth root, sixth root, seventh root, eighth root, ninth root, tenth root, eleventh root, twelfth root, absolute value, parentheses, curly braces, square root, square root, not equal to, less than, and a triangle. Below the toolbar is a large, empty white text area for the answer. A percent sign (%) is visible to the right of the text area.

Omar and Caleb each had a repair made on their cars. The initial cost of each repair is \$1,000. Omar and Caleb each have two coupons. Each of them uses both of his coupons toward the cost of the repair. One coupon is for \$80 off the repair cost. The other coupon is for 15% off the repair cost. Omar and Caleb use their coupons in a different order, as shown below.

- Omar uses the \$80 off the repair cost coupon first. He then uses the 15% off the repair cost coupon on the remaining balance.
- Caleb uses the 15% off the repair cost coupon first. He then uses the \$80 off the repair cost coupon on the remaining balance.

Who paid the least amount of money for his car repair and how much less did he pay?

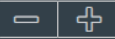
Show your work.

The workspace includes a toolbar with the following icons: undo, redo, selection tool, plus, minus, multiply, divide, equals, less than, less than or equal to, greater than, greater than or equal to, pi, degree, double quote, subscript, superscript, square, fraction, percent, square root, absolute value, curly braces, square root, square root, not equal, angle, triangle, double arrow, and triple arrow.

Answer paid \$ less



zoom



bookmark



note



reference



highlighter



answer eliminator



calculator



ruler



protractor



line-reader