

Mathematical Models with Applications - QCHSMA4072 Correct Questions With Answers

Determine the correct equation for the following verbal sentence:

The total distance traveled, d , at a constant speed of 45 miles per hour is the product of the speed and the number of hours traveled, h . Correct Answer: $d = 45h$

Translate the sentence into an equation using n as the unknown number. Then solve the equation for n . Round to the nearest hundredth if necessary.

The quotient of a number divided by 6 is 3.5. Correct Answer: B.

What is the verbal phrase for the following expression? $5n$ Correct Answer: five times a number

The formula for the circumference of a circle is . Determine the circumference when the radius r is 10 cm. Correct Answer: B.

If n stands for number sold and c stands for cost per item, in which column would you use the formula: Correct Answer: WRONG - column E

An automobile factory is assembling cars and they need to have all of the parts in stock at the assembly line. Each car needs four tires and a spare tire for the trunk. If they produce c cars per day, what formula shows how to calculate the number of tires, t , needed? Correct Answer: WRONG - A.

If i stands for income and e stands for expenses, what is the formula for p , profits? Correct Answer: D.

Translate the sentence into an equation using n as the unknown number. Then solve the equation for n .

Two times a number increased by 5 is 15. Correct Answer: WRONG - D.

An algebraic equation is an equation that includes: Correct Answer: one or more variables

A paratrooper jumps from a plane at an altitude of 4500 ft and descends at the rate of 20 ft/sec. What is the formula for the paratrooper's height, h , above the ground after t seconds? Correct Answer: B.

A basketball player made 36 free throws in 16 games. Find the ratio of free throws to games. Correct Answer: 9:4

Solve the proportion. Correct Answer: D. $-17/3$

$$48/8 = 42/x$$

Please select the best answer from the choices provided Correct Answer: B. $x=7$

At Whitewater Junior High School, there are 360 students and 39 teachers. What is the ratio of students to each teacher rounded to the nearest tenth? Correct Answer: 9.2:1

A baseball player made six hits in nine innings. What is the ratio of hits to innings? Correct Answer: 2:3

$$n/39 = 8/13$$
 Correct Answer: C. $n = 24$

$$n/32 = 1/16$$
 Correct Answer: C. $n = 2$

There are 84 boys in a freshman class of 146 students. Find the ratio of boys to girls.

Correct Answer: 42:31

There are 96 girls in a junior class of 176 students. Find the ratio of girls to boys. Correct Answer: 6:5

Lesson 2 Answer Key Mathematical Model With Applications

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