2-7 Reteaching

Solving Proportions

A proportion is an equation that states that two ratios are equal. If a quantity in a proportion is unknown, you can solve a proportion to find the unknown quantity as shown below.

Problem

What is the solution of $\dfrac{3}{4} = \dfrac{x}{14}$?

There are two methods for solving proportions—using the Multiplication Property of Equality and the Cross Products Property.

1) The Multiplication Property of Equality says that you can multiply both sides of an equation by the same number without changing the value.

$$\frac{3}{4} = \frac{x}{14}$$

$$14\left(\frac{3}{4}\right) = \left(\frac{x}{14}\right)14 \qquad \text{To isolate } x, \text{ multiply each side by 14.}$$

$$\frac{42}{4} = x \qquad \text{Simplify.}$$

$$10.5 = x \qquad \text{Divide 42 by 4.}$$

2) The Cross Products Property says that you can multiply diagonally across the proportion and these products are equal.

$$\frac{3}{4} = \frac{x}{14}$$

$$(4)(x) = (3)(14) \qquad \text{Multiply diagonally across the proportion.}$$

$$4x = 42 \qquad \text{Multiply.}$$

$$\frac{4x}{4} = \frac{42}{4} \qquad \text{To isolate } x, \text{ divide each side by 4.}$$

$$x = 10.5 \qquad \text{Simplify.}$$

Real world situations can be modeled using proportions.

Problem

A bakery can make 6 dozen donuts every 21 minutes. How many donuts can the bakery make in 2 hours?

A proportion can be used to answer this question. It is key for you to set up the proportion with matching units in both numerators and both denominators.

For this problem, you know that 2 hours is 120 minutes and 6 dozen is 72 donuts.

Correct:

$$\frac{72 \text{ donuts}}{21 \text{ min}} = \frac{x \text{ donuts}}{120 \text{ min}}$$

Incorrect:

$$\frac{72 \text{ donuts}}{21 \text{ min}} = \frac{120 \text{ min}}{x \text{ donuts}}$$

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more easily solved by numerical methods than a differential equation with specified boundary and initial conditions This situation makes the subject more attractive to those whose interest is primarily in numerical methods **Nonlinear Functional Analysis** Felix E. Browder,American Mathematical Society,1970 **The Cumulative Book Index** ,1922 **The British National Bibliography** Arthur James Wells,1979 *The British National Bibliography Cumulated Subject Catalogue* ,1970 *Special and Spurious Solutions of x(t)= -alpha f(x(t-1))* Roger D. Nussbaum,Heinz-Otto Peitgen,1984 We consider periodic solutions of the parameter dependent differential delay equation italic italic t lowercase Greek Alpha italic f italic x italic t 1 which exhibit special symmetries El-Hi Textbooks & Serials in Print, 2000 ,2000 *Money Sense: More than 100 Real-Life Problems to Teach Basic Math Skills* Remedia Publications,2023-05-12 Realistic Life Skills Math Lessons Math plays a vital role in our lives every single day In fact it is so common that sometimes we don t even realize we are doing math These practical lessons are sure to help students master everyday math skills and help them understand Why this math is so important **Nonlinear Diffusion Equations and Their Equilibrium States II** W.-M. Ni,L.A. Peletier,James Serrin,2012-12-06 In recent years considerable interest has been focused on nonlinear diffu sion problems the archetypical equation for these being Ut U f u Here denotes the n dimensional Laplacian the solution u u x t is defined over some space time domain of the form n x O T and f u is a given real function whose form is determined by various physical and mathematical applications These applications have become more varied and widespread as problem after problem has been shown to lead to an equation of this type or to its time independent counterpart the elliptic equation of equilibrium u f u O Particular cases arise for example in population genetics the physics of nu clear stability phase transitions between liquids and gases flows in porous media the Lend Emden equation of astrophysics various simplified com bustion models and in determining metrics which realize given scalar or Gaussian curvatures In the latter direction for example the problem of finding conformal metrics with prescribed curvature leads to a ground state problem involving critical exponents Thus not only analysts but geome ters as well can find common ground in the present work The corresponding mathematical problem is to determine how the struc ture of the nonlinear function f u influences the behavior of the solution **The Math Teacher's Book of Lists** Judith A. Muschla,Gary Robert Muschla,1995 Provides over 300 useful lists for developing instructional materials and planning lessons for elementary and secondary students

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