

UNIT 1 DAY 11 AND 12 SUMMATIVE TASK MEL4E LEARNING GOAL

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Unit 1 Day 11 and 12 Summative Task

Learning Goal: Students will demonstrate their understanding of the concept of ratios and proportions by solving real-world problems involving ratios.

Question:

A recipe for lemonade calls for 1 part lemon juice to 3 parts water. If you want to make 6 cups of lemonade, how much lemon juice and how much water will you need?

Answer:

Since the ratio of lemon juice to water is 1:3, for every 1 cup of lemon juice, you will need 3 cups of water. To make 6 cups of lemonade, you will need:

- Lemon juice: $6 \text{ cups} / (1 + 3) = 1 \text{ cup}$
- Water: $6 \text{ cups} / (1 + 3) = 3 \text{ cups}$

Question:

A scale model of a car is 1:24. If the length of the actual car is 18 feet, what is the length of the scale model?

Answer:

The ratio of the scale model to the actual car is 1:24. This means that every 1 unit in the scale model represents 24 units in the actual car. Therefore, to find the length of the scale model:

- Scale model length: $18 \text{ feet} / 24 = 0.75 \text{ feet}$ (or 9 inches)

Question:

A mixture of paint is composed of 2 parts red paint to 5 parts white paint. If there are 15 gallons of paint in the mixture, how many gallons of each color of paint are there?

Answer:

The ratio of red paint to white paint is 2:5. For every 2 gallons of red paint, there are 5 gallons of white paint. To find the amount of each color of paint:

- Red paint: $15 \text{ gallons} / (2 + 5) * 2 = 6 \text{ gallons}$
- White paint: $15 \text{ gallons} / (2 + 5) * 5 = 9 \text{ gallons}$

Question:

A team of hikers walked 15 miles on the first day of their hike and 20 miles on the second day. What is the ratio of the distance they walked on the first day to the distance they walked on the second day?

Answer:

The ratio of the distance walked on the first day to the distance walked on the second day is:

- $15 \text{ miles} / 20 \text{ miles} = 3:4$

Question:

A store sells apples for \$0.50 per pound and oranges for \$0.75 per pound. If Gabriel buys 2 pounds of apples and 3 pounds of oranges, how much will he spend in total?

Answer:

- Cost of apples: 2 pounds * \$0.50 per pound = \$1.00
- Cost of oranges: 3 pounds * \$0.75 per pound = \$2.25
- Total cost: \$1.00 + \$2.25 = \$3.25

Welcome to RocketPrices: Frequently Asked Questions

1. **What is RocketPrices?** RocketPrices is an online marketplace that connects buyers and sellers of space-related products and services. Our mission is to make the space industry more accessible and affordable by providing a platform where people can buy, sell, and trade space-related goods with ease.
2. **What types of products and services are available on RocketPrices?** RocketPrices offers a wide range of space-related products and services, including:
 - Rocket parts and components
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3. **How does RocketPrices work?** RocketPrices is a user-friendly marketplace that allows buyers and sellers to connect easily. Sellers can list their products and services for sale, while buyers can search for and purchase the items they need. RocketPrices also provides a secure payment system and escrow services to ensure the safety of all transactions.
4. **What are the benefits of using RocketPrices?** There are many benefits to using RocketPrices, including:
 - Access to a global marketplace of space-related products and services

- The ability to buy, sell, and trade space-related goods with ease
- A secure payment system and escrow services
- Competitive pricing and discounts on space-related products and services

5. **How can I get started with RocketPrices?** Getting started with RocketPrices is easy. Simply create a free account and start browsing our marketplace. You can search for specific products or services, or browse by category. Once you find an item you're interested in, you can contact the seller directly to inquire about pricing and availability.

Intermediate Microeconomics: Workout Solutions from the Textbook

Intermediate microeconomics is a challenging subject that requires a deep understanding of economic principles and mathematical concepts. To help students master the material, the textbook "Intermediate Microeconomics and Intermediate Microeconomics with Calculus, Ninth Edition" provides a comprehensive set of workouts. These workouts offer step-by-step solutions to key exercises and problems, enabling students to test their understanding and identify areas for improvement.

Question 1: Determine the optimal output level for a firm that faces the following profit function: $\pi(Q) = 100Q - 5Q^2$

Answer: To find the optimal output, we set the derivative of the profit function equal to zero and solve for Q . The derivative is: $d\pi/dQ = 100 - 10Q$. Setting this equal to zero, we get $100 - 10Q = 0$, which implies $Q^* = 10$.

Question 2: Calculate the marginal product of labor for the following production function: $Q = 10L + 5L^2$

Answer: The marginal product of labor is the change in output resulting from a one-unit increase in labor. It is given by the derivative of the production function with respect to labor: $MP(L) = dQ/dL = 10 + 10L$.

Question 3: Suppose a consumer has the following utility function: $U(X, Y) = XY$. Determine the optimal consumption of goods X and Y given a budget constraint of I .

Answer: To maximize utility, the consumer sets the marginal rate of substitution (MRS) equal to the price ratio: $MRS = dY/dX = P(X) / P(Y)$. Substituting the utility function, we get $XY = (P(X)/P(Y)) X$. Thus, $Y^* = I/2P(Y)$.

Question 4: Use calculus to find the optimal level of investment for a firm that has the following investment function: $IC(K) = K^3 - 3K^2 + 2K$

Answer: To find the optimal level of investment, we take the derivative of the investment function with respect to capital and set it equal to zero: $dIC/dK = 3K^2 - 6K + 2 = 0$. Solving this quadratic equation yields $K^* = 1$.

Question 5: Consider a market with the following demand and supply functions: $QD(P) = 10 - 0.5P$, $QS(P) = 5 + 0.5P$. Calculate the equilibrium price and quantity.

Answer: To find the equilibrium price and quantity, we set QD equal to QS and solve for P . $10 - 0.5P = 5 + 0.5P$, which gives $P = 7.5$. *Substituting this back into QD , we get $Q = 7.5$.*

Scary Stories to Tell in the Dark: A Chilling Anthology

What is "Scary Stories to Tell in the Dark"?

"Scary Stories to Tell in the Dark" is a collection of short horror stories written by Alvin Schwartz and illustrated by Stephen Gammell. First published in 1981, it became a cult classic among children and adults alike. The book features a mix of classic folktales, urban legends, and chilling original stories.

What makes these stories so scary?

The stories in "Scary Stories to Tell in the Dark" are known for their eerie and unsettling atmosphere. Schwartz's writing is simple and direct, but his stories are filled with vivid imagery and a sense of dread. Gammell's iconic illustrations further enhance the book's chilling effect, featuring grotesque and haunting figures that linger in the mind long after reading.

Is the book appropriate for children?

"Scary Stories to Tell in the Dark" is not recommended for young children. The stories are often violent, disturbing, and contain graphic descriptions. Parents should preview the book before allowing children to read it.

What is the cultural impact of "Scary Stories to Tell in the Dark"?

"Scary Stories to Tell in the Dark" has had a significant impact on popular culture. The stories have been adapted into several films, television shows, and video games. The book has also been credited with inspiring a new generation of horror writers.

Is there a sequel?

Yes, there are three sequels to "Scary Stories to Tell in the Dark": "More Scary Stories to Tell in the Dark" (1984), "Scary Stories 3: More Tales to Chill Your Bones" (1991), and "Scary Stories to Tell in the Dark: The New Class" (2019).

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