Codingal

Solving Linear Equations in Real-World Problems

Question: John has 3 boxes of pencils. Each box contains x pencils. If the total number of pencils is 21, how many pencils are in each box?

Equation: $3x = 21$

Choose the correct answer:

Question: A bus carries 5 passengers. Each passenger pays $x. If the total fare collected is $50, how much does each passenger pay?

Equation: $5x = 50$

Choose the correct answer:

Question: Maria buys 4 identical pens. If the total cost is $12, how much does each pen cost?

Equation: $4x = 12$

Choose the correct answer:

Question: A rectangle has a perimeter of 42 meters. The length is 3 meters longer than the width. Find the width of the rectangle if w represents the width.

Equation: $2w + 2(w + 3) = 42$

Choose the correct answer:

Question: A bike rental company charges a fixed fee of $15 plus $5 per hour. If the total cost for 4 hours of rental is $35, find how much they charge per hour.

Equation: $15 + 5x = 35$

Choose the correct answer:

Question: Tom spends $x on 6 packs of juice. The total cost is $18. How much does one pack cost? Equation: $6x = 18$

Choose the correct answer:

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Question: Sarah has $x. She spends $5 on lunch and still has $20 left. How much money did she have initially?

Equation: x - 5 = 20

Choose the correct answer:

Question: A car rental company charges $25 per day plus $0.50 per mile driven. If the total cost for a day's rental is $40, and the car was driven x miles, find how many miles were driven.

Equation: 25 + 0.5x = 40

Choose the correct answer:

Question: A family of 4 people went to the zoo. The entry ticket is $x for each person, and they spent a total of $100. If they also spent $60 on food, how much was the ticket price?

Equation: 4x + 60 = 100

Choose the correct answer:

Question: A container holds x liters of water. After 12 liters are poured in, the total is 35 liters. How many liters did the container initially hold?

Equation: x + 12 = 35

Choose the correct answer: