2-Step Equation Word Problems   10/26

Variable Key Words: Per
Every
Each
a/an

* Remember to Label Our Answers *

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1. STUDYING Over the weekend, Koko spent 2 hours on an assignment, and she spent equal amounts of time studying for 4 exams for a total of 16 hours. How much time did she spend studying for each exam?

$$2 + 4x = 16$$
$$-2 \quad\quad -2$$
$$4x = 14$$
$$\overline{4} \quad \overline{4}$$

$$\boxed{x = 3.5 \text{ hours}}$$

2. FOOD At the market, Meyer buys a bunch of bananas for $0.65 per pound and a frozen pizza for $4.99. The total for his purchase was $6.94, without tax. How many pounds of bananas did Meyer buy?

$$4.99 + 0.65x = 6.94$$
$$-4.99 \quad\quad -4.99$$
$$0.65x = 1.95$$
$$\overline{0.65} \quad \overline{0.65}$$

$$\boxed{x = 3 \text{ pounds}}$$

3. HOME IMPROVEMENT
Laura is making a patio in her backyard using paving stones. She buys 44 paving stones and a flowerpot worth $7 for a total of $73. How much did each paving stone cost?

$$44x + 7 = 73$$
$$-7 \quad -7$$
$$44x = 66$$
$$\frac{44x}{44} = \frac{66}{44}$$
$$\boxed{x = \$1.50}$$

4. TAXI A taxi service charges you $1.50 plus $0.60 per minute for a trip to the airport. The distance to the airport is 10 miles, and the total charge is $13.50. How many minutes did the ride to the airport take?

$$1.50 + 0.60x = 13.50$$
$$-1.50 \qquad -1.50$$
$$\frac{0.60x}{0.6} = \frac{12.00}{0.6}$$
$$\boxed{x = 20 \text{ minutes}}$$