

Assignment: T2-30 Equations from Scenario

Show your work!

1) SCENARIO: You are given \$100 and your uncle wants you to split it evenly between you and your four siblings.	EXPRESSION:
2) SCENARIO:	EXPRESSION: $-7x + 300$ If I buy 3 boxes of cookies, How many money will I have left.?
3) SCENARIO:	EXPRESSION: $\frac{3}{4}b + 400$ How many lbs will the bag weigh if I add 10 more golf balls?
4) SCENARIO: You start an ant farm for the aardvarks at the local zoo. Each aardvark will eat 5 lbs of ants per day. How many lbs of ants will you need per day.	EQUATION: What if there are eight aardvarks at the zoo?
5) SCENARIO:	EQUATION: $P = 2B$ What if I have 27 bricks?
6) SCENARIO: Mr. Wallace currently weighs 230 lbs. He plans on losing 1.5 lbs per week.	EXPRESSION: How much will Mr. Wallace weigh after 12 weeks?

7) SCENERIO: You get to take a test and each problem is worth 3 points each. You get 5 points for just putting your name and period on the test.	EQUATION:	TABLE: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 50%; text-align: center;">c</td> <td style="width: 50%; text-align: center;">s</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	c	s								
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What will be your score if you get 23 questions correct? How many problems will you have to get correct in order to get a score higher than 90?												

8) SCENERIO	EQUATION: $d = -75t + 1125$	TABLE: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 50%; text-align: center;">t</td> <td style="width: 50%; text-align: center;">d</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	t	d								
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After 12 hours, how far are you from home? If you are 450 miles from home, how many hours have you traveled?												

Identify the mistake made while solving the equation. Then solve it correctly. Show your work!

a)
$$\begin{array}{r} 4x - 3 = 17 \\ +3 \quad +3 \\ \hline 4x = 20 \\ -4 \quad -4 \\ \hline x = 16 \end{array}$$

Mistake: _____ Correct Answer: _____

c)
$$\begin{array}{r} 3x + 2x - 6 = 24 \\ -2x - 2x \\ \hline x - 6 = 24 \\ +6 \quad +6 \\ \hline x = 30 \end{array}$$

Mistake: _____ Correct Answer: _____

b)
$$\begin{array}{r} 3(2x - 4) = 8 \\ 6x - 4 = 8 \\ +4 \quad +4 \\ \hline 6x = 12 \\ \frac{6x}{6} = \frac{12}{6} \\ x = 2 \end{array}$$

Mistake: _____ Correct Answer: _____

d)
$$\begin{array}{r} 5x + 1 = -2x - 8 \\ \swarrow \quad \searrow \\ 3x + 1 = -8 \\ -1 \quad -1 \\ \hline 3x = -9 \\ \frac{3x}{3} = \frac{-9}{3} \\ x = -3 \end{array}$$

Mistake: _____ Correct Answer: _____