Homework (Day 5)

Solve the problems.

1 Which equation has a solution of 4? Select all that apply.

A $12x = 3$

C $10 + x = 14$

B $6x = 24$

D $x - 4 = 8$

How are inverse operations used to solve equations?

2 Elisa is saving an equal amount each week for 8 weeks to buy a video game that costs $40. How much is she saving each week?

A $4

C $32

B $5

D $48

Jesse chose **C** as the correct answer. How did he get that answer?

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What operation will the equation you use to solve this problem involve?

3 Hector buys a shirt and a tie. The shirt costs $34, which is $18 more than the cost of the tie. Olivia and Max each write an equation to find the cost of the tie t. Is one equation, both equations, or neither equation correct? Explain how you know. Solve each correct equation.

Olivia: $t + 18 = 34$ Max: $34 - t = 18$

How do the two equations differ?

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4 Haley's exercise routine takes 12 minutes. Let *r* represent the number of times that Haley exercised, and let *T* represent the total number of minutes she exercised. Tell whether each statement is *True* or *False*.

a. The equation $r + 12 = T$ can be used to find the total number of minutes that Haley exercised. ☐ True ☐ False

b. It takes Haley 36 minutes to do her exercise routine 3 times. ☐ True ☐ False

c. If Haley spent a total of 1 hour doing her exercise routine, then she did the routine 6 times. ☐ True ☐ False

d. 12*r* represents the total number of minutes that Haley exercised. ☐ True ☐ False

5 Todd has 17 inches of rope. This is $\frac{1}{3}$ of the length of rope that he needs to tie his boat to a dock. How many inches of rope does he need to tie his boat to the dock.

Show your work.

Solution: _____

6 Write a scenario that could be represented by this equation. $\frac{3}{4}x = 12$

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