April 7, 2015
April 5, 2016

WORD PROBLEM EQUATIONS

April 25, 2018

Mini-Lesson # 2 (TASK 1, 2 & 3)

Jan 21-8:53 AM

Example 1:

5. There are two gyms in your area which you are looking to join. Both have plans that are similar, and you are wondering which is best for you. The gym called Body Fitness has a monthly charge of $20.00 to use the facility and charges you $2.00 for every hour you use the equipment. The gym called Body of Steel has a monthly charge of $10.00 to use the facility and charges you $2.50 for every hour you use the equipment.

a) Write an equation for Body Fitness gym.

$$60$$

10 hrs

$$2(10) + 20 = cost$$

$$60 \rightarrow 2h + 20 = cost$$

b) Write an equation for Body of Steel gym.

$$60 \rightarrow 2.50h + 10 = cost$$

c) After how many hours of use of equipment will both gyms cost the same amount of money?

$$-2h \quad h \quad -10 \quad -2h \quad -10$$

$$2.50h + 10 = 2h + 20$$

$$\frac{0.5h}{0.5} = \frac{10}{0.5}$$

$$\boxed{h = 20}$$

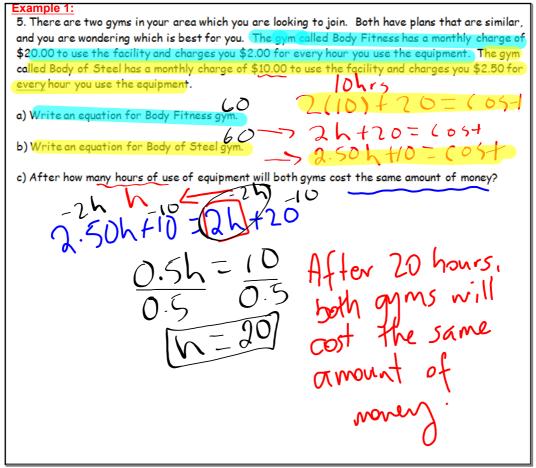After 20 hours, both gyms will cost the same amount of money.

Mar 28-12:10 PM

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You Try: (TASK 1 & 2 only) Variable?

8. Skateboards can be rented from two shops in a park.

Shop Y charges $15 plus $3 per hour
Shop Z charges $12 plus $4 per hour

Determine the time in hours for which the rental charges in both shops are equal.

a) Write an equation to determine the time.
b) Solve the equation.
c) Verify the solution.

$$cost = 15 + 3h$$
$$cost = 12 + 4h$$

$$15 + 3h = 12 + 4h$$

At 3 hours, the rental charges will be equal.

Mar 25-12:19 PM