1.) Jane's cell phone plan is $40 a month plus $.15 per minute for each minute over 200 minutes of call time. If Jane's cell phone bill is $55.00, for how many extra calling minutes was she billed? Write and solve an equation to find out the number of extra calling minutes. Define your variables.

m = min. over

$40 + .15m = 55$

$.15m = 15$

$m = 100$ min.

2.) $\frac{1}{6}(24x + 36) - 2x + 14 - 8 = 112$

$4x + 6 - 2x + 14 - 8 = 112$

$2x + 12 = 112$

$2x = 100$

$x = 50$

3.) $\frac{3}{11}x + \frac{5}{11}x - 7 + 26 = 14$

$\frac{8x}{11} + 19 = 14$

$\frac{11}{1} \cdot \frac{8}{11}x = -5$

$x = \frac{-55}{8}$; -6.875

HW #11 Answers:

8.) 3

10.) x + 1/2x = 1725; x = $1150

14.) -2

16.) 2

40.) 9

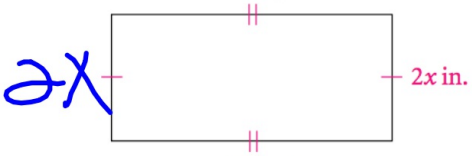
51.) The student forgot to multiply -1 by 8.

54.) 5

57.) 92 mi.

Geometry **The perimeter of each rectangle is 64 in. Find the value of x.**

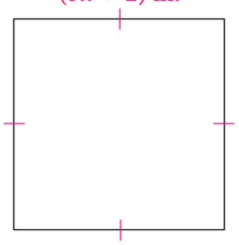
54.



2x

22

55.



$4x + 44 = 64$

$4x = 20$

$x = 5$

8. $7m - 3m -$

14. $15 = -3(2q$

16. $m + 5(m - 1$

40. $-(z + 5) =$

51. E

a

$\frac{3}{8}x - 1 =$

$3x - 1 =$

$3x =$

$x =$

57. Moving Costs The MacNeills rented a mov
mile. Before returning the truck, they filled
$18.32. The total cost was $95.87. Find the n
driven.

1. The cost of renting a jet ski is $40 per day plus $50 per hour of use. How many hours was a jet ski rented if the total cost was $390?

$40 + 50h = 390$

$50h = 350$

$h = 7$ hrs

$h =$ hrs

2. When an alligator is born it is about 8 inches long. Each year they grow about 12 inches. Determine how old an alligator is that is 116 inches long.

$8 + 12y = 116$

$y = 9$ y/o y = years

3. Membership at the Healthy You Gym is a $40 initial fee and $5 a visit. If Sanjaya's bill was $105, how many times had he visited the gym?

$40 + 5v = 105$

$5v = 65$ visits = v

$v = 13$ visits

4. Membership to a video game club is $50 a year and $3 per game rented. At the end of the year Harvey had spent $296. How many games had he rented?

$50+3g=296$ g = games

$3g=246$

$g=82$ games

5. Danielle wants to paint a ceramic planter. The total price is the cost of the planter plus an hourly painting rate of $6. Determine how many hours Danielle painted if she spent $9 on the planter and her total bill was $33.

$6h+9=33$

$6h=24$ h = hrs

$h=4$ hrs.

6. Jackson Intermediate School is doing a fund raiser selling magazine subscriptions. The magazine publisher will pay the school a starting bonus of $500 and then $4 for each magazine subscription sold. At the end of the fund raiser the school is paid a total of $1360. How many subscriptions did they sell?

S = subs.

$500 + 4S = 1360$

$4S = 860$

$S = 215$ subs.

7. The lengths of the sides of a triangle are x, $2x + 1$, $5x + 4$ inches. If the perimeter is 53 inches, what is the value of x?

$8x + 5 = 53$

$8x = 48$

$x = 6$

1.) $\frac{1}{4}(6x + 24) - 2x + 10 - 4 = 43$

$\frac{3x}{2} + 6 - \frac{2x}{1} + 10 - 4 = 43$

$-\frac{1}{2}x + 12 = 43$

$-\frac{1}{2}x = 31 \cdot 2$

$x = -62$

$\frac{3}{2} - \frac{2}{1} \cdot \frac{2}{2}$

$\frac{3}{2} - \frac{4}{2}$

$= -\frac{1}{2}$

2.) $-\frac{1}{2}(6x - 4) + 5(x + 2) = 0$

$-3x + 2 + 5x + 10 = 0$

$2x + 12 = 0$

$2x = -12$

$x = -6$

3.) $2[4-(x-1)+3x]=14$

$2(4-x+1+3x)=14$

$2(2x+5)=14$

$4x+10=14$

$4x=4$

$x=1$

4.) $2+3[2(x+4)-7]=35$

$2+3(2x+8-7)=35$

$2+3(2x+1)=35$

$2+6x+3=35$

$6x+5=35$

$6x=30$

$x=5$

5.) $4[5x+7-8x]+2=-18$

$4(-3x+7)+2=-18$

$-12x+28+2=-18$

$-12x+30=-18$

$-12x=-48$

$x=4$

You can now finish HW #12

Sect. 2-3

Pages 91 & 93

Problems #21-27 and #64

IXLs: J.5 & J.6 - due Friday!