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.

$$0.15X + 40 = 55$$

$$0.15X = 15$$

$$0.15X = 15$$

$$0.15X = 15$$

$$0.15 = 15$$

$$0.15 = 15$$

$$0.15 = 15$$

$$0.15 = 15$$

$$0.15 = 15$$

$$0.15 = 100 = 200$$

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

$$\frac{8}{11}x - 7 + 26 = 14$$

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

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

$$2x + 12 = 1/2$$

$$-12 - 12$$

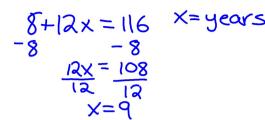
$$2x = 100$$

$$x = 50$$

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?

$$40+50h=390$$
 -40
 -40
 $50h=350$ h=hours
 50
 $h=7$

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.

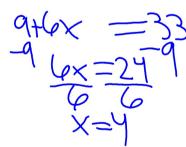


4. Membership to a video game club is \$50 a year and \$3 per game rented. At the end of the year Harvey had spent \$296. How many games had he rented?

$$9 = 9 \text{ arres}$$
 $50 + 39 = 296$
 $7 = 296$ $39 = 296$ $39 = 296$ $39 = 296$ $39 = 296$

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?

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.



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?

$$500 + 4x = 1360 X = Subsu$$

 -500
 -500
 $4x = 860 = 215 \text{ subs}$

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

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?

2.)
$$-\frac{1}{2}(6x-4)+5(x+2)=0$$
 $-\frac{1}{2}\cdot\frac{6}{1}=-3-\frac{1}{2}\cdot\frac{9}{1}=$
 $-3x+2+5x+10=0$
 $2x=-12$
 $x=-6$

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

 $X=1$

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

$$2(5+2X)=14$$

$$10+4X=14$$

$$4X=4$$

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

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

 $4(-3x+7)+2=-18$
 $-12x+2=-18$
 $-12x+30=-18$
 $-12x+30=-18$
 $-12x=-48$
 $-12x=4$

You can now finish HW #12

Sect. 2-3

Pages 91 & 93

Problems #21-27 and #64

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