Name:	Date:	Unit 1 Class Wo	ork	
Review Equations!				
Solve Each Problem.				
1. The lengths of the sides of a triangle triangle is 36 inches. Determine the le		•	;	
2. In a game of basketball, you make shots. You made five times as many to a total of 52 points! How many of ea	two-point shots as th	nree-point shots, and earned	k	
3. Ed Sheeran is performing at a bende be given to charity. Ed is going to give of all of the ticket sales.		•		
a. How much money must be made at least \$20,000?	in ticket sales in ord	ler for the total donation to b	эе	

b. Assuming the concert venue holds 800 people and is expected to sell out, what

would be a reasonable price for any given ticket? Support your answer.

Solve Each Equation.

1.
$$2b - 9 = 51$$

2.
$$3h + 2 = -2h - 7$$

3.
$$-2(x + 9) = 8x - 4$$

4.
$$-3 + 7(3x - 1) = -4(-3 + 3x) - 2x$$

5.
$$-5n - 3n = -5(n + 3) - 4(n - 1)$$

6.
$$3v - 12 = 3(2v + 10)$$

ISOLATE THE DESIRED VARIABLE IN EACH EQUATION. BE SURE TO STATE ANY RESTRICTIONS.

1. desired: length (e)

$$P = 2\ell + 2w$$

3. desired: q

$$3q/9 = (9 + r)/s$$

4. desired: m

$$n/m = r/p$$

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<u>Selected Solutions</u>:

1. 8 inches, 12 inches, and 16 inches 3a. \$19,411.77

$$1. b = 30$$

1.
$$b = 30$$
 3. $x = 11/3$ or 3.66... 5. $n = -11$

5.
$$n = -11$$

1. length =
$$P/2 - w$$

P > 0 and w > 0

3.
$$q = (63 + 9r) / 3s$$

= $(21 + 3r) / s$

s cannot equal o