Beginning Algebra	Name:
Study Guide 4	Class:
Due Date:	Score:

No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

1. (3 points) Solve:
$$\frac{1}{2}x + \frac{3}{4} = \frac{1}{4}x - \frac{3}{5}$$

1. _____

2. (3 points) Solve:
$$\frac{1}{2}(x-2) = \frac{-1}{3}(x+3)$$

2. _____

3. (3 points) Solve:
$$1.35x - 4.5 = 0.1x + 7.75$$

3. _____

4. (3 points) Solve:
$$\frac{3}{4}x = -6$$

4. _____

- 5. Evaluate:
 - (a) (2 points) -4x for $x = \frac{1}{2}$
 - (b) (2 points) $\frac{2}{5}x$ for $x = \frac{-5}{2}$

- (a) _____
- (b) _____

- 6. Solve:
 - (a) (2 points) $x \frac{2}{3} = \frac{1}{3}$
 - (b) (2 points) $\frac{2}{5}x + \frac{2}{3} = \frac{-4}{15}$

(a) _____

(c) (3 points) $\frac{3}{4}(x-2) + \frac{1}{3} = \frac{2}{3}(x+1) - 1$

(b) _____

(c) _____

7. (2 points) Solve: $\frac{2}{3}(x+3) - \frac{5}{6} = \frac{1}{2}(x-2)$

7. _____

8.	(3 points)	Thirteen	$less\ than$	one-quarter	of some	${\bf number}$	is	equal	\mathbf{to}	one	more
	than half t	he numbe	er. Find th	ne number.							

8. _____

9. (3 points) Twice the sum of some number and 3 reduced by 10, the result is 10. Find the number.

9.

10. (3 points) In triangle ABC, angles A and B are equal, and angle C is 25° less than three times angle A. Find the measure of all three angles.

10. _____

11. (2 points) Solve: $\frac{3x-5}{5} = \frac{x+3}{3}$

11. _____

12. (2 points) Solve: $\frac{2.5}{100} = \frac{x}{400}$

12. _____

	13
14. (3 points) In a survey of 800 people, 50 were left left-handed people are there in a gathering of 1	
	14
15. (2 points) Solve $-5x + 3y = -15$ for the <i>y</i> variable	le.
16 (2 points) Solve 2m 50 — 10 for the a verible	15
16. (2 points) Solve $2x - 5y = -10$ for the y variable.	•
	16
17. (3 points) The length of a rectangular room is a Find the dimensions of the room if its perimeter	
	17

13. (2 points) What is 18% of 150?