

**Algebra Review #2 SHOW HOW YOU SOLVED EACH PROBLEM**

1. Use  $>$ ,  $<$  or  $=$  in each blank.

a.  $\frac{7}{8} \square \frac{7}{9}$

b.  $\frac{2}{3} \square \frac{10}{15}$

c.  $0.3 \square \frac{1}{3}$

d.  $\frac{4}{11} \square \frac{3}{10}$

2. Simplify each expression

$-6(-7)$	$-3 - 11$
$2b - 9c$ if $b=-1$ and $c=-2$	$-x \div (y - 5) - z$ if $x=20$ , $y=10$ , and $z=-5$

3. Write an expression for each of the following.

Twice the speed (s) of the car	Six times as many candies (c) minus two
Half of a number (h) less than 7	The difference between 15 and the square of a number

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4. Add (simplify answer if needed):

$$4\frac{2}{3} + 5\frac{3}{5}$$

5. Divide (simplify answer if needed):

$$\frac{3}{4} \div \frac{9}{5}$$

6. Fill in the chart:

Exponential	Expanded	Standard
$1^6$	$1 \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1$	8
$7^3$		
	$\frac{1}{2} \cdot \frac{1}{2}$	
		324