

## Pre-Algebra Problem Set 7 Answers

1. Missing values, from least to greatest

- a) 10, 30, 40      b) 8.1, 16.2, 24.3, 40.5      c) 2.2, 4.4, 6.6, 11.0  
 d)  $3\frac{1}{3}$ ,  $6\frac{2}{3}$ ,  $13\frac{1}{3}$ ,  $16\frac{2}{3}$  or  $3.\bar{3}$ ,  $6.\bar{6}$ ,  $13.\bar{3}$ ,  $16.\bar{6}$


2. a) 8      b) 11      c) 2


3. a)  $5 + (-3) = 2$       b)  $4 + (-6) = -2$       c)  $4 + (-4) = 0$


4. a) Look up how to label the quadrants I, II, III, IV on google. Hint: the numbers form a giant C.


b) B = (-5, -5), C = (4, -2)      c) (3, -4)


5. a)  $\frac{7}{9}$       b)  $\frac{3}{25}$  or  $\frac{12}{100}$       c)  $\frac{12}{99}$       d)  $\frac{3}{100,000}$       e)  $\frac{29}{999}$

6. a)  $\frac{1}{8}$   
 0.125  12.5%

b)  $\frac{4}{9}$   
 44. $\bar{4}$ %  0. $\bar{4}$

c) 3%  
 0.03   $\frac{3}{100}$

d) 0.8  
 80%   $\frac{4}{5}$

e) 0. $\bar{8}$   
 88. $\bar{8}$ %   $\frac{8}{9}$

7. a)  $5\frac{1}{2}$       b)  $3\frac{2}{3}$       c)  $3\frac{1}{3}$       d)  $11\frac{1}{9}$       e)  $111\frac{1}{9}$

8. a) 0.875      b)  $0.\bar{2}$       c)  $0.8\bar{3}$       d)  $0.08\bar{3}$       e)  $0.\overline{09}$

9. a) 

	50	4
30	1500	120
2	100	8

 $54 \cdot 32 = 1728$

b) 

	200	60	1
70	14,000	4200	70
8	1600	480	8

 $261 \cdot 78 = 20,358$

10.  $\frac{3}{10}$

11. a) 12.5      b) 29      c) Give your opinion, and *why*.

12. a)  $P(\text{not red}) = \frac{37}{49}$       b)  $P(\text{blue}) = \frac{17}{49}$

13.  $\frac{5}{12}$  of her time, or 50 minutes

