Assignment 14

1. Express each of the following rational numbers in the standard form:

a. $\frac{-84}{126}$

b. $\frac{144}{-216}$

c. $\frac{-225}{-375}$

d. $\frac{392}{588}$

e. $\frac{-121}{242}$

2. Write the absolute value of the following rational numbers:

a. $\frac{-45}{67}$

b. $\frac{81}{-92}$

c. $\frac{-143}{-169}$

d. $\frac{0}{17}$

e. $\frac{-999}{1000}$

3. Fill in the boxes:

a. $\frac{7}{12} = \frac{49}{\square}$

b. $\frac{-15}{28} = \frac{\square}{196}$

c. $\frac{18}{-45} = \frac{6}{\square}$

d. $\frac{\square}{84} = \frac{-11}{21}$

e. $\frac{-56}{72} = \frac{14}{\square}$

f. $\frac{135}{\square} = \frac{45}{84}$

4. Express the rational number $\frac{-7}{9}$ with the numerator as:

a. 56

b. -126

c. 315

d. -700

5. Express the rational number $\frac{15}{-22}$ with the denominator as:

a. 66

b. -154

c. 330

d. -528

6. Give five rational numbers equivalent to:

a. $\frac{-11}{13}$

b. $\frac{17}{-19}$

c. $\frac{-24}{-35}$

d. $\frac{29}{41}$

7. Determine whether the following rational numbers are positive or negative:

a. $\frac{-72}{-91}$

b. $\frac{84}{-105}$

c. $\frac{-150}{225}$

d. $\frac{-999}{-1001}$

e. $\frac{456}{-789}$

8. Arrange the following rational numbers in ascending order:

$$\frac{-5}{8}, \frac{7}{12}, \frac{-3}{4}, \frac{11}{16}, \frac{-9}{10}$$

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9. Arrange the following rational numbers in descending order:

$$\frac{13}{15}, \frac{-7}{9}, \frac{5}{6}, \frac{-11}{18}, \frac{17}{20}$$

10. Find the missing number:

a. $\frac{18}{35} = \frac{\square}{245}$

b. $\frac{-63}{81} = \frac{7}{\square}$

c. $\frac{144}{\square} = \frac{36}{45}$

d. $\frac{\square}{96} = \frac{-13}{24}$