

Name: _____

Date: _____

REVIEW SHEET - RATIONAL NUMBERS

Evaluate each expression. Write all answers in simplest form.

1.) $-\frac{7}{15} - \frac{11}{15}$

2.) $4\frac{1}{8} - (-2\frac{3}{8})$

3.) $-\frac{3}{14} + \frac{6}{7}$

4.) $\frac{14}{25} \times (-\frac{3}{7})$

5.) $-\frac{7}{22} \times (-4)$

6.) $2\frac{1}{2} \times (-10\frac{4}{5})$

7.) $-1\frac{4}{27} \times (-3\frac{6}{11})$

8.) $-\frac{3}{10} \div \frac{1}{5}$

9.) $-\frac{7}{8} \div 1\frac{1}{13}$

10.) $48 \div (-\frac{4}{5})$

11.) $\frac{4}{9} \div \frac{1}{3} + \frac{7}{10}$

12.) $\frac{5}{8} + \frac{5}{12} \div \frac{10}{21}$

13.) $-\frac{3}{16} \div (\frac{3}{4} + \frac{5}{6})$

14.) $\frac{7}{18} \times (-\frac{10}{21}) \div 1\frac{2}{9}$

15.) $\frac{1}{2} - (-4.5)(3)$

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16.) $7 - [1.1 + (-5.9)]$

17.) $-\frac{1}{2}[1.8 \div -0.6]$

Evaluate each algebraic expression using the given values for each variable.

$a = -2.5$ $b = -\frac{1}{2}$ $c = -10$

18.) $a + b + c$

19.) $(a + bc)^2$

20.) $c \div b^2$

21.) $b(c - a)$

22.) $a(c - b)$

23.) $c^2 + b^2 + a^2$

Write as a proper fraction or mixed number in simplest form:

24.) $\frac{18}{36}$

25.) $-\frac{92}{7}$

26.) $\frac{-116}{348}$

Write as an improper fraction and then find the reciprocal.

27.) $3\frac{3}{8}$

28.) $-7\frac{4}{9}$

29.) What are the three ways to write the opposite of $\frac{1}{2}$? _____

30.) What is the reciprocal of 0? _____

31.) Is 0 a rational a number? _____