

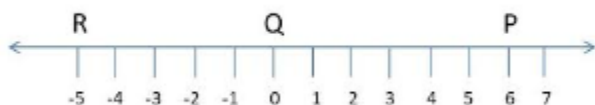
Name \_\_\_\_\_

Date \_\_\_\_\_

**Pre-Algebra Unit 2 Review Sheet**

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1. Given the number line below:



A. What is the distance between R and P?

B. Point S is 1.5 units from R. Name the possible values of S.

2. Express each of the following as **an improper fraction** or a **mixed number**.

a.  $3\frac{5}{9}$

b.  $-5\frac{3}{4}$

c.  $\frac{19}{2}$

d.  $\frac{-45}{11}$

3. **Equivalent Forms of Numbers** - complete the table below

Fraction	Decimal	Percent
$\frac{1}{3}$		
	.625	
		0.3%

4. Evaluate each of the following expressions. Leave answers in simplest form.

a.) $3.5 - 8.2$	b.) $\frac{2}{3} + \frac{1}{5} + \left(-\frac{2}{3}\right)$	c.) $\frac{1}{3} + \frac{1}{5}$	d.) $-2.8 - (-6.08)$	e.) $1.4 - (-0.8)$

f.) $\frac{5}{9} \div \frac{1}{3}$	g.) $11.2(-6.4)$	h.) $-4.5(-9.2)$	i.) $\frac{-420}{-6}$	j.) $-45 \div 1.5$
k.) $0 \div -3.99$	l.) $-9\frac{1}{3} + 1\frac{2}{3}$	m.) $-3\frac{1}{6} + 6\frac{5}{11}$	n.) $-5\frac{2}{7} - 7\frac{5}{6}$	o.) $-3\frac{1}{3} \times 5\frac{13}{20}$
p.) $-2 \div \left(\frac{-4}{11}\right)$	q.) $\frac{2}{5} \left(\frac{2}{3} - \frac{1}{4}\right)$	r.) $\frac{1}{2}(0.5 + (-1.7))$	s.) $\frac{\frac{4}{12}}{\frac{11}{13}}$	

5. Evaluate the following expressions given  $x = \frac{4}{5}$  and  $y = -\frac{7}{8}$

A.  $2x - y$

B.  $x + y$

6. A bank account starts with \$405.50 in total. A deposit was made for \$67.45 and then a withdrawal was made for \$108.54. What is the new amount in the account?

7. A pilot was flying his airplane at 20,000 feet and recorded the following elevations over the next hour: -1000.2, +2000.8, -500.5, + 1000.2, -2000.8.

What was his final altitude at the end of the hour? Explain how you were able to find the new elevation without adding all six numbers.

8. Convert each fraction to a decimal using long division

A.  $\frac{5}{6}$

B.  $\frac{1}{8}$

C.  $\frac{23}{4}$

9. If the expression  $-6x$  has a negative value, what are the possible values of  $x$ ?

A.  $x > 0$

B.  $x < 0$

C.  $x = 0$

D.  $x > 100$

Explain:

10. Write 8.75 in two other ways using fractions