

Rationals Unit End Review Assignment

Name: _____ Date: _____ Total = /28

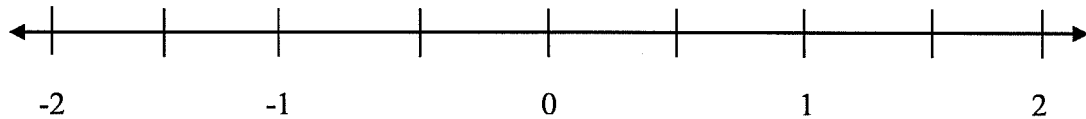
1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____

7. _____ 8. _____ 9. _____ 10. _____ 11. _____

1. Place the letters A to C at the appropriate spot on the given number line:

3 marks

$$A = \frac{-3}{4}, \quad B = \frac{5}{3}, \quad C = 0.5,$$



2. Evaluate:


3 marks

3 marks

$$\left(\frac{1}{3} + \frac{3}{7}\right) \div \left(2 - \frac{-2}{7}\right) =$$

$$2\frac{1}{4} - \left(-3\frac{7}{8} + 5\right)\left(\frac{4}{9} - 3\right)$$

Complete the following questions related to Mary's salary.

<p>Mathematics and Everyday Life</p> <p>Mary earns an annual salary of \$36 000.</p> <p>Complete the following questions related to Mary's earnings.</p>	
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- Mary has prepared a budget based on her annual salary. Complete Mary's budget statement.

3 marks

Expense	Fraction of Annual Salary	Amount
Housing and Food	$\frac{1}{2}$	
Savings	$\frac{1}{12}$	
Transportation (Car Payments, Gas, Insurance)	$\frac{1}{6}$	

- What fraction of Mary's money is left over for other expenses if she spends $\frac{1}{2}$ of her money on housing and food, $\frac{1}{12}$ of her money on savings, and $\frac{1}{6}$ of the total on transportation?

2 marks

- Mary spent \$4500 of her annual salary on entertainment. Express this amount as a percent of her annual salary to the nearest tenth.

1 mark

Numerical Response

- Record your answer in the boxes provided.
- Enter the first digit of your answer in the left-hand box and leave any unused boxes blank.

Example 1

Calculate: $(6 + 10) \div 2 - (2 + 3)$

Solution: 3

3			
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Example 2

A \$11 calculator is marked $\frac{1}{4}$ off. Calculate the discount you will receive.

Solution: \$2.75

2	.	7	5
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1. Evaluate: $24 + 6 \times 9 - 8 \div \frac{1}{2} =$

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Use the following information for the next question.

Brad was comparing four different rational numbers:

Number 1: 0.4

Number 2: $\frac{21}{50}$

Number 3: $\frac{5}{12}$

Number 4: 0.426

2. Brad determined the biggest number in the list to be *Number* _____.

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