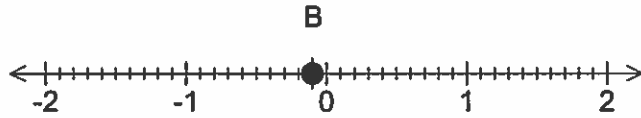


Part 1: Multiple Choice. 7 marks

\_\_\_ / 31 = \_\_\_ %

Place the letter of the correct response in the space provided on the right.

1. What is the rational number represented by letter B. 1. C



- A) -1.1                      B) 0.1                      C) -0.1                      D) 1.1

2. Which number is a not a rational number? 2. B

- A)  $\sqrt{16}$                       B)  $\pi$                       C) -5                      D) 2

3. What number is equivalent to  $\frac{-2}{3}$ ? 3. D

- A)  $\frac{2}{3}$                       B)  $\frac{-3}{6}$                       C)  $\frac{-4}{-6}$                       D)  $\frac{-4}{6}$

4. Evaluate:  $\frac{-2}{5} + \left(\frac{3}{5}\right)$  4. B

- A)  $\frac{1}{10}$                       B)  $\frac{1}{5}$                       C)  $\frac{-1}{5}$                       D)  $\frac{-6}{25}$

5. Evaluate:  $2.35 + (-1.65)$  5. A

- A) 0.70                      B) 0.80                      C) -0.07                      D) 4

6. What is the difference:  $\frac{-4}{5} - \left(\frac{-7}{10}\right)$ ? 6. C  $-\frac{8}{10} + \frac{7}{10}$

- A)  $\frac{-3}{2}$                       B)  $\frac{3}{10}$                       C)  $\frac{-1}{10}$                       D)  $\frac{3}{2}$

7. What is the product  $\frac{1}{4} \times \left(\frac{-3}{5}\right)$ ? 7. A

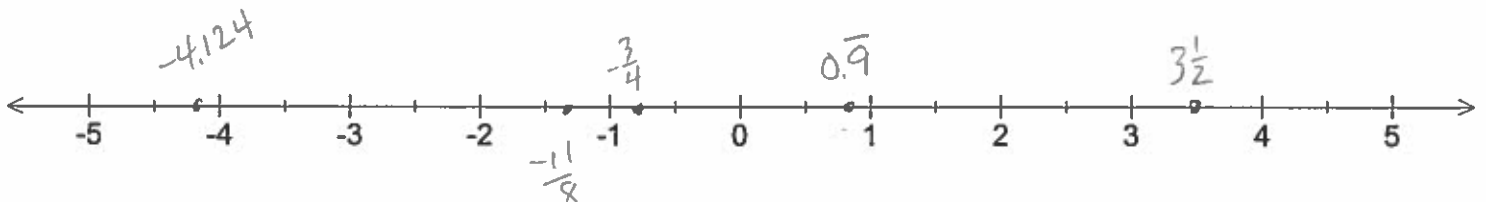
- A)  $\frac{-3}{20}$                       B)  $\frac{-2}{9}$                       C)  $\frac{3}{20}$                       D)  $\frac{-7}{20}$

Part 2: Long Answer Questions. 24 marks

Answer ALL questions in the space provided. Show ALL working to receive FULL credit.

1. Place and label these rational numbers on the number line below: (5 marks)

- $-4.124$ ,  $\frac{-3}{4}$ ,  $3\frac{1}{2}$ ,  $\frac{-11}{8}$ ,  $0.\bar{9}$   
 $-0.75$                        $-1.375$



2. Find 3 rational numbers between  $-\frac{1}{4}$  and  $\frac{1}{4}$ . Put in fractional form. (A number line may help.) (3 marks)

$$-\frac{2}{8} \qquad \frac{2}{8} \qquad -\frac{3}{12} \qquad \frac{3}{12}$$

$$\boxed{-\frac{1}{8}} \quad \boxed{\frac{1}{8}} \qquad \frac{2}{12} = \boxed{\frac{1}{6}}$$

3. Fill the circle with a greater than or less than symbol to make the statement true? (2 marks)

A)  $-5.25$   $\circlearrowright$   $\frac{-17}{3}$   
 $-5.7$

B)  $2\bar{3}$   $\circlearrowright$   $2.3$

3. Evaluate:

A)  $\frac{11}{9} + \left(-\frac{17}{6}\right)$  (2 marks)

$$\frac{22}{18} + \frac{-51}{18}$$

$$\boxed{\frac{-29}{18}}$$

B)  $3\frac{4}{5} - \left(-6\frac{9}{10}\right)$  (3 marks)

$$\frac{19}{5} + \frac{69}{10}$$

$$\frac{38}{10} + \frac{69}{10}$$

$$\frac{107}{10}$$

4. Evaluate:

A)  $\left(1\frac{3}{5}\right)\left(-2\frac{1}{2}\right)$  (2 marks)

$$\frac{8}{5} \times -\frac{5}{2}$$

$$\frac{-40}{10}$$

$$\boxed{-4}$$

B)  $\left(\frac{-5}{12}\right) \div \left(\frac{-25}{4}\right)$  (2 marks)

$$\frac{-5}{12} \times \frac{-4}{25}$$

$$\frac{1}{15}$$

5. Evaluate:

A)  $(-0.2 + 0.9)^2 + 9.8 \div (-0.7)$  (2 marks)

$$(0.7)^2 + (-14)$$

$$0.49 + (-14)$$

$$\boxed{-13.51}$$

B)  $\frac{5}{6} \times \left(\frac{-2}{3} + \frac{8}{3}\right)^2 - \frac{5}{12}$  (4 marks)

$$\frac{5}{6} \times \left(\frac{6}{3}\right)^2 - \frac{5}{12}$$

$$\frac{5}{6} \times \frac{36}{9} - \frac{5}{12}$$

$$\frac{30}{9} - \frac{5}{12}$$

$$\frac{10}{3} - \frac{5}{12}$$

$$\frac{40}{12} - \frac{5}{12}$$

$$\boxed{\frac{35}{12}}$$