**Chapter 2 Test - Rationals**



**PART 1 - NO CALCULATOR**

**Order of Operations Rational Numbers**

**\*\*\*Show your work\*\*\***

Evaluate

|  |  |
| --- | --- |
| **1.**  | **2.**  |
| **3.**  | **4.** -12.3 + 4.7 × 0.5 |
| **5.** 6.7 – 1.8(5.3 – 3.4) | **6.**  |
| **7.**  | **8.**  |
| **9.**  | **10.**  |

**Converting Rationals**

 Do the following Conversions to make a true statement.

|  |  |  |
| --- | --- | --- |
| **11.** as an Improper Fraction is | **12.** as a Mixed Fraction is | **13.** as a decimal is (long division, if necessary) |
| **14.** as a decimal is | **15.** $\frac{4}{9}$ as a decimal | **16.** Reduce  |
| **17.**  as a fraction in lowest terms is | **18.** 0.132 as a fraction in lowest terms is | **19.** 2.53 as a fraction is |
| **20.** $0.23232323…$ as a fraction | **21.** as a fraction is | **22.** 0.23434343434… as a fraction is |

 **Unit Chapter 2 Test - Rational Numbers**

**PART 2A – Calculator use is allowed.**



1. Complete the expression with the symbols <, >, or =.

(a) **□** (b) **** □ 0.52 (c) **□**

|  |
| --- |
|  |
|  |

 2. Write the numbers below in descending order. Use the original numbers in your final answer.

### , , ,

3. Place the following numbers on a number line using their letters.

**A.  B.  C.  D. **

**0**

### 4**.** Which rational number is between −1.12 and −1.13 on a number line?

### **A**  **B**  **C**  **D**

 5. A decimal number, to the nearest tenth, between **** and **** is \_\_\_\_\_\_\_.

 6. A fraction number, with denominator 4, between 4.5 and 5 is \_\_\_\_\_\_\_.

 7. The value of the expression: **-5.6 ÷ (–2.0) – (3.4) × 1.7** is

|  |
| --- |
| 8. Solve for **□**1. -17.8 + **□** = 6.61 (b) **=** -10.3 (c) -4.2 × **□ =** 15.96
 |
|  |
| 9. Solve for **□**1. **- □ =** (b)  **÷ □ =** (c) **□** × **=**
 |
|  |
|  |

**PART 2B – Word Problems: *Show your work* and complete with a sentence answer.**

 10. One day, the temperature fell from 8.5 °C to –2.4 °C in 5 hours. What was the temperature change per hour?

 11. Stocks gain or lose money over time. The following stocks are listed along with the price changes over a one-week period: Stock A +3.25, Stock B -5.18, Stock C +0.98, Stock D -1.25, and Stock E -0.48

 List the five stocks in order, from the stock with the greatest gain to the stock with the greatest loss?

12. Lori had to deliver 48 flyers during her paper route. She delivered **** of the flyers on one street, and then **** of the remaining flyers on another street. How many flyers does Lori have left to deliver?

13. John owned 85 shares in a mining company. On Tuesday, the price of the stock was $25.65 per share. John sold all his shares of stock on Friday, for a total value of $3468.80.

**a)** Determine how much money John lost or gained on the sale of his shares on Friday, compared to Tuesday’s price.

**b)** Determine the value for each of John’s shares on Friday

KEY

**PROBLEM**

16. ANS

 -8.7 /3 = (-2.9 degrees Celsius)

 17. ANS:

**a)** krypton, chlorine, mercury, water, sodium

 18. ANS:



Side length of bedroom 

The side length of the square bedroom is 400 cm.

19. ANS:

(-11 degrees Celsius)

 20. ANS:

**a)** Monday’s stock value = 120  $34.16

 = $ 4099.20

Friday’s stock value = $ 4468.80

Change = +$369.60

Pak gained $369.60 by selling on Friday.

**b)** Value of stock on Friday = Total sale value on Friday ÷ number of stocks

 = 4468.80 ÷ 120

 = 37.24

The value of each share on Friday was $37.24.

 Bonus. ANS:

**a)**  32 = 2

 Audrey ate 2 pieces of cake.

**b)**   32 = 24

Audrey’s school friends ate 24 pieces of cake.

**c)** There are 6 pieces of cake left for Audrey’s two brothers.

  6 = 2

Her brothers together ate 2 pieces.