Unit #2 Review and Study Guide (Simplify all fraction answers)

Review integer, decimal, and fraction rules.

Decimal 🡪 fraction – say it correctly to set it up as a fraction and simplify

* 1. 4.05 🡪 four and 5 hundredths 🡪 4 $\frac{5}{100}$ 🡪 4 $\frac{1}{20}$
	2. 0.36
	3. 45.145

Fraction 🡪 decimal – divide the denominator into the numerator

* 1. $\frac{4}{5}$ 🡪 4 ÷ 5 = 0.8
	2. $\frac{13}{6}$
	3. $\frac{12}{20}$

Simplify the expression and simplify (Remember to use the integer, decimal, and fraction rules)

* 1. - $\frac{6}{9}$ – $\frac{1}{5}$ = 8. 5.2(-2.2) =
1. 3 $\frac{2}{3}$ + -$5\frac{2}{6}$ = 10. -5.1 – (-4.8) + 3.9 =

11. 2 $\frac{2}{6}$ – (-1 $\frac{1}{2}$ ) = 12. 11 $\frac{1}{2}$ + 7 $\frac{3 }{8}$ =

1. -2.8 – -5.3 = 14. 3.5 $÷ $-0.3 =

15. $\frac{1}{8}$ + $\frac{2}{9}$ = 16. 47.2 ÷ 0.8 =

17. $\frac{-9}{10}$ + $\frac{3}{8}$ = 18. -$0.7\*8.3$ =

19. $\frac{3}{16}$ ÷ $\frac{9}{4} $= 20. 4 $\frac{4}{6}$ \* -5 $\frac{2}{3}$ =

Solve the following problems.

1. Six bags of Krunch-Max potato chips cost $15.96. How much does one bag cost?
2. Rafael ate two fifths of a pizza and Donatello ate three sevenths of it. Who at more? How much more?
3. Jill measures some scrap boards in her garage to see if she has enough to make a border around her garden. She needs 11.5 meters total. The boards measure 2.75 meters, 4.9 meters, 1.06 meters, and 1.6 meters. Does Jill have enough?
4. Mr. Romito is a bus driver for the Mansfield Coach Company. He drove the Maple Hills Senior Citizen Group on a 2-day motor trip through western North Carolina to view the autumn colors. On the first day, he drove 538.5 miles. On the second day, he logged 365.027 miles. How many more miles did he drive the first day than the second?
5. The stock market shows these daily changes. What is the average for the week.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Monday | Tuesday | Wednesday | Thursday | Friday |
| $$-\frac{1}{4}$$ | $$-\frac{3}{8}$$ | $$\frac{1}{6}$$ | $$-\frac{3}{4}$$ | $$\frac{7}{12}$$ |

1. A candle was originally 5.5 inches tall. After burning awhile it is now 2 $\frac{1}{3 }$ inches. How much did it burn?