6th Pre AP Math

CUA Unit 4- Rational Numbers

REVIEW

1. What decimal is equivalent to ?
2. What is the product of 3 divided by written as a fraction or mixed number?
3. Write the equivalent fraction or mixed number for – (-1.125) in simplest form?
4. A rectangular corn field runs .23 miles along the main road and extends back from the main road .095 miles. What is the area of this corn field?
5. Find the quotient for (-5 ) (-4.25). Write your answer as a fraction or mixed number.
6. Find the difference written as a fraction: (-3 ) – (-1 )
7. Cole went hiking near his house. The first trail took him 7 miles away from his house. The second trail took him  miles closer to his house. The third trail took him  miles further away from his house. How many miles from his house was Cole after he finished hiking the third trail?
8. Linda earns $90,000 per year. If she   
   does not work for 2 months in a year, how much money would she earn?
9. The elevation of New Orleans, Louisiana, is on average 8 feet below sea level. The elevation of El Centro, California, is 39 feet below sea level. What is **the difference** in elevation between the two cities?
10. Write an equation to find the average of 2.5, 5.2, 1.7, and 0.8?

Solve the equation.

1. Which decimal value is equal to -5 ?
2. There are 4,200 adults in Lakeview. Three-eighths of the adults in Lakeview do **not** have children. How many adults in Lakeview have children?
3. A test has 40 questions. Denise finished  of the questions in the first 10 minutes and  of the remaining questions in the next 15 minutes. Write and expression to find how many questions Denise answered after 25 minutes? Then solve.
4. Seth purchased a printer for $350. The price of the printer that Jose purchased was  the price that Seth paid. Write and solve the expression to find how much Jose paid for his printer?
5. Dori bought a sandwich for $6.75, a bag of dried fruit for $1.45 and a bottle of water for $1.75. She paid the cashier with a $20 bill. How much change did she receive?
6. George ate  of a container of Chinese food. Silvia ate  of same container of Chinese food. Write and solve an expression to find that fraction of the container of Chinese food they ate together?
7. Ms. Henning wants to purchase 30 calculators for her math class. Calculators cost $14 each. Ms. Henning currently has $300 in her account to spend on the calculators. How much more money does she need?
8. Diamond has $350 in her bank account. She wrote 4 checks for $18.45 each and 2 checks for $51.25 each. What will be the balance in Diamond’s account after the checks are cashed?
9. What is the value of 3 + 4.5  (1.2)?
10. Ji and Layla played a game in which they scored 10 points for a correct answer and lost 20 points for an incorrect answer. Ji answered 7 questions correctly and 3 questions incorrectly. Layla answered 5 questions correctly and 1 question incorrectly. Who had the higher score? By how many points?

Answer Key:

1. -.2
2. -4 5/6
3. 1 1/8
4. .02185
5. 1 9/34
6. – 1 11/24
7. 5 9/10 Miles
8. $75,000
9. 31 ft
10. .9
11. -5.625
12. 2,625 Adults
13. 28
14. ( 350 ) ( 4 / 5 ) = 280
15. $10.05
16. 2 / 3 + 1 / 5 = 13 / 15
17. $120
18. $173.70
19. 2.7
20. Layla, 20 Points