Division 7 - Decimals and Fractions Practice Quiz - ANSWERS

A) Add the following decimals

1) 4.25 + 3.05 = 7.30

2) 22.10 + 9.74 = 31.84

3) 56.53 + 69.41 = 125.94

4) 147.39 + 31.50 = 178.89

5) 562.88 + 290.01 = 852.89

B) Subtract the following decimals

1) 8.94 - 5.76 = 3.18

2) 21.45 - 3.43 = 18.02

3) 87.87 - 43.38 = 44.49

4) 987.65 - 43.21 = 944.44

5) 456.78 - 123.09 = 333.69

C) Solve the following word problems

1) Nixon has $2.45, and Owen has $8.10. They put their money together to buy a box of used Pokemon cards that was on sale for $9.99. There are no taxes. How much money will they have remaining after buying their cards?

$2.45 + $8.10 = $10.55 Total --> $10.55 - $9.99 = $0.56 remaining

2) Kira and Tia decided to bake cookies for Sophia for her birthday. They had most of the ingredients, but needed to buy eggs, vanilla and chocolate chips. They had a $20 budget, and the eggs cost $3.29, the vanilla is $4.79 and the chocolate chips are $6.39. How much money will Kira and Tia have left over after they buy all the necessary ingredients at Save-on-Foods?

Ingredients: $3.29 + $4.79 + $6.39 = $14.47 Total --> Budget $20.00 - $14.47 = $5.53 remaining

3) Josiah and Iah wanted to build planter boxes for their moms for Mother's Day. They needed 3 cedar boards, and each cost $3.99. They also needed a box of nails and some landscape fabric. The nails were $4.29 and the landscape fabric cost $14.88. If there was no tax on the materials, and they shared the cost, how much would they each need to pay?

Cedar Boards: 3 x $3.99 = $11.97 **OR** $3.99 + $3.99 + $3.99 = $11.97

Nails + Fabric: $4.29 + $14.88 = $19.17 --> Boards + Materials: $11.97 + $19.17 = $31.14 Total -->

Total cost divided between Josiah and Iah: $31.14 ÷ 2 = $15.57 each

D) Add the fractions and reduce the final fraction (if possible)

1) 2/5 + 4/5 = 6/5 --> 1 1/5

2) 3/8 + 7/8 = 10/8 --> 1 2/8 --> 1 1/4

3) 4/7 + 3/7 = 7/7 --> 1

4) 1/6 + 3 5/6 = 3 6/6 --> 4

5) 7 3/5 + 2 1/5 = 9 4/5

E) Subtract the fractions and reduce the final fraction (if possible)

1) 8/9 - 4/9 = 4/9

2) 5/6 - 1/6 = 4/6 --> 2/3

3) 11/12 - 7/12 = 4/12 --> 1/3

4) 9 2/3 - 1/3 = 9 1/3

5) 8 4/7 - 5 3/7 = 3 1/7

F) Multiply the following fractions and reduce the final fraction (if possible)

1) 2/3 x 4/5 = 8/15

2) 5/7 x 2/3 = 10/21

3) 6/9 x 4/6 = 24/54 --> 4/9

4) 1 3/5 x 1/3 = (8/5 x 1/3) = 8/15

5) 3 7/9 x 4 4/5 = (34/9 x 24/5) = 816/45 --> 18 6/45 --> 18 2/15

G) Solve the following fractions word problem

 Parker and Skylar each had basketball games on the weekend. Parker took 12 shots in his game and made 7 baskets. Skylar took 9 shots and made 5 baskets. Represent their shooting and scoring as a fraction. Once you have your fractions, find a common denominator, and figure out who had the better/ larger fraction of baskets made.

   Parker: 7/12 Skylar: 5/9 --> multiply Parker x3 and Skylar x 4 for a common denominator of 36

Adjusted Fraction: Parker: 21/36   Skylar: 20/36   <u>Who had the larger fraction of baskets made</u>? Parker