Name:_____

Super fun Math review worksheet Exam #1

A. Decimals and Approximation: Round each decimal to 2 decimal places

1) 121.513__121.51_____ 2) 0.063___0.06__
3) 7.755 ___7.76__ 4) 301.081 ___301.08__
5) 2.468___2.47___ 6) 5.777___5.78__

B. Dividing 2-digit decimals by whole numbers.

1) 1.2 ÷ 4 = ___0.3____ 2) 0.3 ÷ 3 = ___0.1____
3) 1.20 ÷ 8 = ___.15____ 4) 1.02 ÷ 3 = __0.34_____
5) 1.0 ÷ 10 = ___0.1____ 6) 0.90 ÷ 10 = __0.09_____
7) 0.8 ÷ 4 = ___0.2____ 8) 0.7 ÷ 7 = ___0.1____
9) 1.84 ÷ 8 = ___0.23__ 10) 1.82 ÷ 7 = __0.26___
11) 0.18 ÷ 9 = ___0.02___12) 0.24 ÷ 6 = ___0.04____

C. Express each mixed number as a decimal; correct to 2 decimal places.

1. 2 1/7 = 2.14 2. 5 7/8 = 5.88

3. 1 5/6 = 1.83 4. 1 3/7 = 1.43

5. 3 2/3 = 3.67

D. Multiplying decimals by tens.

1. 3.14 × 10 = ___31.4_ 2. 62.1 × 10 = ___621__

3. 0.480 × 10 = ___4.8_ 4. 0.125 × 10 = __1.25____

5. 9.67 × 10 = ___96.7_ 6. 0.181 × 10 = __1.81___

7. 9.2 × 10 = __92__ 8. 5.10 × 10= ___51__

9. 83.0 × 10 = ___830___ 10. 0.840 × 10 = ___8.4__

E. Complete the multiplication table.

Number	X 10	X 100	X 1000
0.003	0.03	0.3	3
1.234	12.34	123.4	1234
5.678	56.78	567.8	5678
7.15	71.5	715	7150
98.05	980.5	9805	98050

F. Complete the division table.

Number	÷ 10	÷ 100	÷ 1000
9	0.9	0.09	0.009
21	2.1	0.21	0.021
987	98.7	9.87	0.987
5001	500.1	50.01	5.001

G. Conversion of Measurements.

1 Kilometers = 1000 Meters	1 Liter = 1000 milliliters	1 Kilogram = 1000 gram
1 meter = 100 cm	0.1 Centimeter = 1 millimeter	1 Centimeter = 0.01meter

Find the equivalent measures.

1) 20km = ___20,000__m

2) 0.09 m = __9__cm

3) 77 m = 0.077 km

4) 0.04km = 4,000 cm

5) 0.18m = 0.00018 km

6) 5 km = 5000 m

7) 0.07 km = 70m

8) 7.4 kg = 7,400 g

9) 0.08kg = 80g

10)3g = 0.003kg

11) 5g= 0.005kg

12)18kg = 18,000g

13) 8.3kg= 8,300 g

14)5.001 L =___5001__ml

15) 9.3 kg = __9300__g

16)2.002 kg= ____2002___g

Express each answer in decimals.

1) 88 m = 0.088 km

2) 360 m = 0.36 km

3) 1060 g = 1.06kg

4) 70g = 0.07kg

5) 9ml = 0.009 L

6) 90 mm = 9.0 cm

7) 3000 mm = 300 cm

8) 8542 cm = 85.42 m

9) 2 cm =0.02 m

10)33 cm = 0.33 m

Work Problems: Show your work for partial credit!

1. A pack of dog food that weighs 5 kg cost $20. A smaller pack of dog food that is 500 g costs $2.50. Which one has better value?

   The bigger pack costs $4 per kg.
   The smaller pack costs $5 per kg.
   The 5-kg pack is better value.

2. Broomy saved some money. He used the money to buy 21 cards and had $324 left. If each card cost $33.15, how much money did Broomy have <u>at first</u>?

   21 X $33.15 = 696.15
   Total cost of 21 cards was $696.15
   $696.15 + $324 = $ 1020.15 at first

3. How many 30-g flower pots can a 6-kg pack of soil fill up?

   6 kg = 6000 g
   A 6-kg pack of soil can fill up 200 flower pots.

4. In a Bubble tea factory, a machine dispenses 88.99 liters of black tapioca per minute. How much tapioca can the machine dispense in 120 minutes?

   88.99 X 120 = 10678.8

   Ans: the machine can dispense 10678.8 black tapioca per minute in 120 minutes.

5. Abby is packing to move to another apartment down the hall. She packed 24 boxes. Each box can hold up to 8 lb. The trolley she is using to move can take up to 32 lb. How many trips does it take her to move if she only has one trolley?

   $24 \times 8 \div 32 = 6$
   She needs to take 6 trips.

6. Katrina's yard is rectangular. One side of the yard is 50 feet wide. The total area of the yard is 6,000 square feet. What is the length of the other side of the yard?

   Area = length X width. 6000 / 50=

   Ans: 120 The other side

7. The height of the BFG giant is 7.828 kilometers. The height of the mysterious green man is 1711 meters shorter than that of the BFG giant. Find their total height in kilometers.

7.828 km = 7828 m
7828-1711 = 6117
The height of mysterious green man is 6117
7828 + 6117 = 13945

Their total height is 13.945 kilometers