6.) (5 pts each, 10 pts total) Use your knowledge of proportions to answer each of the following:

a) A phone store earned $112.32 after they sold 18 phone cases. Write an equation that can be used to express the relationship between the total money earned (t) and the number of cases(c) sold.

b) $\frac{16}{25} = \frac{64}{100}$

$\frac{16}{25} = \frac{64}{100}$

$\frac{(25)(64)}{100} = \frac{1600}{100}$

$= 16$

Me

7.) (2.5 pts each, 10 pts total) Use you knowledge of conversions to answer each of the following:

100cm / cm — 1m / m → King Harry Potter dragon

a) 18 centimeters = 0.18 m

Big'n Lil Lil Big'n

18

mm cm

base — dog → cat → mouse

b) 306 millimeters = 30.6 cm

B 10mm Lil L 306 1cm Big

c) 9 kilograms = 9000 g

9,000

Lil 1kg Big B 1000g Lil

B

d) 834 milliliters = 0.834 L

834

Lil L Big' Base

23 kL = 23,000 L

2 L = 2000 mL

2 L = 200 cL

· 10 deci L

100 centi L

1000 milli L

2 Dozen = 24 donuts
Lil Big Big Lil

8.) (2.5 pts each, 5 pts total) Convert each percent to a decimal.

a) 68%

68.

0.68

b) 125%

125.

1.25

9.) (2.5 pts each, 5 pts total) Convert each number to a percent.

a) 0.89

0.89 → 89%

b) 4.36

4.36 → 436%

10.) (5 pts each, 10 pts total) Use your knowledge of percents to answer each of the following:

a) What is 75% of 64?

_ = 0.75 * 64

48

b) Nate ate 288 pounds of fudge last month. If he expects to eat 20% more fudge this month than last, how much fudge is he expected to eat this month?

$288(1 + 20\%)$ (0.2)

$288(1.2) = 345.6$

11.) (2.5 pts each, 5 pts total) Divide each.

a) Round to the hundredths place. $42\overline{)7280}$

b) Round to the hundredths place. $0.56\overline{)42.78}$

76.39

76.392
56 | 4278.000
-392
358
-336
220
-168
520
-504
160

427 ÷ 56 = 7.~
56 * 7 = 392
358 ÷ 56 = 6.~
56 * 6 = 336
220 ÷ 56 = 3.~
56 * 3 = 168
520 ÷ 56 = 9.~
56 * 9 =

12.) (2.5 pts each, 10 pts total) Solve each problem.

a) $78.006 - 28.739$

799
78.006
- 28.739

b) 43.917 + 8.097

43.917
+ 8.097

c) 36.46 × 19.08

36.46 (2)
× 19.08 (2)
29168
00000
3281400
3646000
695.6568

Move decimal

2 + 2 = 4

d) Round to the nearest hundredth.

14.082 ÷ 3.2

695.6568

14.082 ÷ 3.2

3.2 | 14.082

32 | 140.82