Foundations of Algebra
Day 8: Place Value
Practice Assignment

Unit 1: Number Sense & Quantity
Name: _Key_

Practice

0 25 50 75 100

1. Use the place value chart to answer the following questions. Express the value of the digit in unit (fraction) form.

hundreds	tens	ones	.	tenths	hundredths
8	2	7		6	4

a. The digit __8__ is in the hundreds place. It has a value of __800__.

b. The digit __2__ is in the tens place. It has a value of __20__.

c. The digit __6__ is in the tenths place. It has a value of __6/10 or .6__.

d. The digit __4__ is in the hundredths place. It has a value of __4/100 or .04__.

hundreds	tens	ones	.	tenths	hundredths
3	4	5		1	9

e. The digit __3__ is in the hundreds place. It has a value of __300__.

f. The digit __4__ is in the tens place. It has a value of __40__.

g. The digit __1__ is in the tenths place. It has a value of __1/10 or .1__.

h. The digit __9__ is in the hundredths place. It has a value of __9/100 or .09__.

2. Fill in the blank to make the sentence true for both fraction form and decimal form.

a. $\frac{8}{10}$ cm + $\frac{2}{10}$ cm = 1 cm   0.8 cm + $.2$ cm = 1.0 cm

b. $\frac{2}{10}$ cm + $\frac{8}{10}$ cm = 1 cm   0.2 cm + $.8$ cm = 1.0 cm

c. $\frac{6}{10}$ cm + $\frac{4}{10}$ cm = 1 cm   0.6 cm + $.4$ cm = 1.0 cm

3. Write the following decimals in fraction form:

a. 2.6   b. 3.7   c. 4.23   d. 5.67   e. 0.33

$2\frac{6}{10}$ $3\frac{7}{10}$ $4\frac{23}{100}$ $5\frac{67}{100}$ $\frac{33}{100}$

$\left(2\frac{3}{5}\right)$

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a. $\frac{4}{10}$

.4

b. $\frac{43}{100}$

.43

c. $\frac{45}{10}$

4.5

d. $\frac{84}{100}$

.84

e. $\frac{75}{10}$

7.5

5. Give the total amount of money in decimal form:

a. 3 dimes and 8 pennies

$.30 $.08

$\boxed{\$ 0.38}$

b. 8 dimes and 23 pennies

$.80 $.23

$\boxed{\$ 1.03}$

c. 3 quarters, 3 dimes, & 5 pennies

$.75 $.30 $.05

$\boxed{\$ 1.10}$

6. Emmanuel has 6 dimes and 2 pennies. Emilio has 1 dollar, 3 dimes, and 5 pennies. Ryan has 5 dollars and 7 pennies. They want to put their money together to buy a game that costs $8.00. Do they have enough money to buy the game? If not, how much more do they need?

Emmanuel : $.62
Emilio : $1.35
Ryan : $5.07
———————
$7.04

They do not have enough money. They $0.96 more.

$$\begin{array}{r} 7\,\overset{9}{8}.\overset{}{0}\overset{}{0} \\ -\ 7.04 \\ \hline 0.96 \end{array}$$

7. Taylyn has 7 dollars and 32 cents. Aaliyah has 3 dollars and 4 cents. How much money does Taylyn need to give to Aaliyah so they each have the same amount of money?

Taylyn : $7.32

Aaliyah : $3.04
——————
$4.28 ÷ 2 = $2.14
(How much more Taylyn has)

So if Taylyn gives up half of the $4.28, which is $2.14, both girls will have the same amount.

8. A pen costs $2.25. A binder costs three times as much. How much does the pen and binder cost in total?

Pen = $2.25

3 Binders = 3 × $2.25 = $6.75

Pen + 3 Binders

$2.25 + $6.75

$\boxed{\$9.00 \text{ total}}$