Mathematics 7

Math Makes Sense

Chapter 3 – Mini- Assignments

1.) Order the numbers on a number-line.

A) 1.2 **B**) 3/4 **C**) 15/10 **D**) 0. 5 **E**) 2/3 **F**) 25/25 **G**) 1.25

D E B F A G C

2.) Identify the number as **greater**, **less than** or **equal to**.

A) 8/9 > 6/8

B) 14/14 = 4/4

C) **7** 5/10 > **7** 4/10

D) 16/2 = 72/9

3.) Label the various parts of a fraction.

36 3/7

A) 36 whole number

B) 3 numerator

C) 7 denominator

4.) Identify the type of fraction being presented.

A) 50/10 improper fraction

B) 6/24 proper fraction

C) 22 1/8 mixed number

5.) Convert the following decimals to fractions.

A) 2.07 = **2** *7/100*

B) 25.36 = **25** *36/100*

C) $16.\overline{8}$ = **16** *8/9*

6.) Provide an equivalent fraction for each of the following.

A) *Division method*: 15/45 (15÷ 3 =5; 45 ÷ 3 = 15) *5/15*

B) *Multiplication*: 3/7 (3 x 2 = 6; 7 x 2 = 14) *6/14*

7.) Convert the following fractions to decimals.

A) 3/10 = 3 ÷10 = 0.3

B) 4/6 = 4 ÷ 6 = $0.\overline{6}$

8.) Calculate the following:

A) 653.06 + 42.3 = 695.36

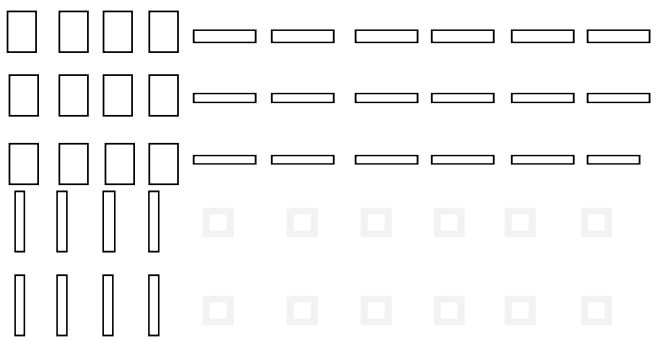
B) 973.6 - 5.04 = 968.56

C) 63.02 X 5.3 = 334.006

D) 4.8 ÷ 2.1 = *(to the nearest hundredths place)* 2.28

9.) Model the following using base ten blocks.

4.6 X 3.2 = 14.72



10.) Jonathan needs 20.5 metres of pine board to make two bird houses. He has 16.4 metres of board.

B) How much more board does he need to buy?

20.5 – 16.4 = 4.1

Jonathan needs 4.1 m of pine board to complete two birdhouses.

C) How much pine board would Jonathan need to build 3 bird houses

30.75 -16.4 = 14.35

Jonathan needs to purchase 14.35 m of pine board to build three birdhouses for a total of 30.75 m of pine board.

D) If Jonathan purchases 18.0 metres of pine board, will he have enough board to complete the third birdhouse?

18 = 16.4 = 34.2 * required 30.75 m

If Jonathan purchases 18.0 m of pine board, He will have enough to build three bird houses.

E) How much pine board is required to build one birdhouse?

20.5 ÷ 2 = 10.25

It requires 10.25 m of pine board to build one birdhouse.

11.) Order of Operations - Evaluate the following: (*hint* **BEDMAS**)

A) 4.6 + 8.1 x 5.2 – 30 =

4.6 + 42.12 – 30

46.12 – 30

16.12

B) 2.5 ÷ 0.5 + (7.3 x 3.1) =

2.5 ÷ 0.5 + 22.63

5 + 22.63

27.63

12.) Write each percent as a fraction.

B) 7% -

7 /100

B) 94%

94/100

13.) Write each percent as a decimal.

C) 316%

316 ÷ 100 = 3.16

D) 0.5%

0.5 ÷ 100 = 0.005

14.) Write each decimal as a percent.

A) 2.45

2.45 x 100 = 245

245%

B) 0.67

0.67 x 100 = 67

67%

15.) Sally wants to purchase a new sweater. It cost $15.17. There is a one day sales promotional for 20% off. The sales tax is 12%

B) How much discount is 20% off the sweater?

20 ÷ 100 = 0.2

0.2 x 15.17 = 3.93

20% discounted from $15.17 is $3.93.

C) How much is the sweater with the 20% off? (*before the sales tax*)

$15.17 -$3.93 = $11.24

The sweater cost $11.24 with the 20% discount.

D) What is the final cost Sally will pay for the sweater?

12% ÷ 100 = 0.12

0.12 x 11.24 = 1.348 *round to 1.35

1.35 + 11.24 = 12.59

$12.56

The final cost of the sweater that Sally will pay is $12.56.