1pg GLO6FD

1) Solve the following proportions:

a) A/5 = 14/35 **A = 2**
b) 12/B = 60/5 **B = 1**
c) 18/6 = C/60 **C = 180**
d) 2/24 = 6/D **D = 72**

2) Write the ratios of the following:

a) The number of pennies in three nickels to the number of dimes in a half dollar. **15:5 = 3:1**

b) The number of seconds in a half minute to the number of hours in a day. **30:24 = 5:4**

3) Find the unit rate of the following examples:

a) 12 oz. of juice for $1.56. **$0.13/oz**

b) 300 miles traveled in 5 hours. **60 mph**

4) Evaluate the problems below:

a) What is 25% of 16? **4**

b) 11 is 20% of what? **55**

c) What percent of 20 is 5? **25%**

5) Fill in the chart below

fraction	decimal	percent
1/5	**0.2**	**20%**
7/20	0.35	**35%**
1/50	**0.02**	2%
5/8	**0.625**	**62.5%**
9/10	0.9	**90%**
1/1	**1**	100%

6) Compare using <, >, =

2/6 __>__ 0.3
- 0.5 __<__ - 0.4
0.60 __=__ 0.6000
1/5 __=__ 0.2
-7 __<__ -1.08

7) If A = 2, B = 3, C = 5 and D = 0, evaluate each expression below:

a) $C(C - A) + (2)^3 =$ **23**
b) $D^3 - (D)(B)(C) =$ **0**

8) Solve each equation for X:

a) X - 12 = 28 **X = 40**
b) 4X = 52 **X = 13**

9) Complete the chart below.

X	Y
2	-3
3	-2
5	0
7	**2**
105	100

Write a rule for completing the chart.
Y = X - 5
X = Y + 5

10) Arrange in <u>decreasing</u> order:
$(6)^0$, -0.6, 0.65, -6 ½ , 0.6, $(2)^2$
$(2)^2$, 6^0, 0.65, 0.6, -0.6, -6 ½

11) Add:
a) $9 + 5\,{}^3/_8 + {}^7/_8 =$ **15 ¼**
b) 35.5 + 0.027 + 2 = **37.527**

12) Subtract:
a) $7 - 3\,{}^4/_5 =$ **3 1/5**
b) $16\,{}^3/_{10} - {}^4/_5 =$ **15 ½**
c) 5 – 0.26 = **4.74**
d) 22.2 – 15.057 = **7.143**

13) Multiply:
a) 54 X 162 = **8748**
b) 19 X 100 = **1900**
c) 4.15 X 0.02 = **0.083**
d) 2.94 X 10 = **29.4**
e) $30 \times {}^1/_6 =$ **5**
f) $3\,{}^1/_3 \times {}^5/_6 =$ **2 7/9**

14) Divide:
a) 0.432 ÷ 0.12 = **2.6**
b) 17.55 ÷ 1000 = **0.01755**

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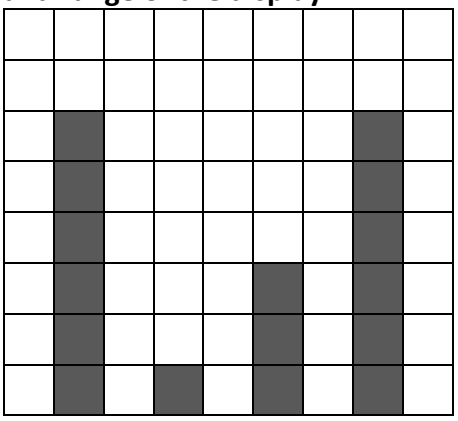
c) 45 ÷ 0.09 = **500**
d) 0.56 ÷ 16 = **0.035**
e) ${}^1/_2 \div ½ =$ **1**
f) $3\,{}^3/_4 \div {}^1/_4 =$ **15**

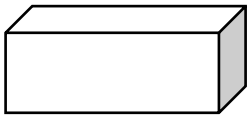
15) In the data display below, the value of column C is 12. Find the values of the mean, median, mode and range of the display.



mean=15 ½, median=18, mode=24, range=20

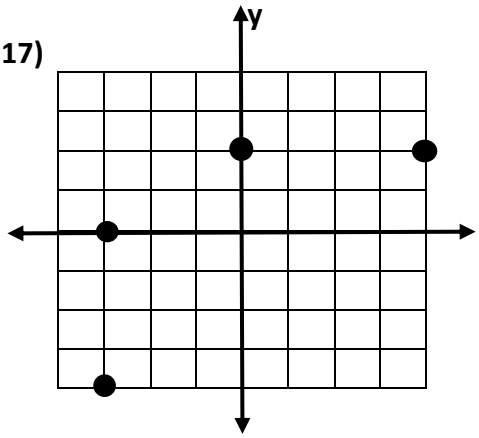
16) The volume of the rectangular prism shown below is 72 in^3. Find the Length and Total Surface Area.

W = 4 in. H = 3 in.



L = 6 in TSA = 108 in^2

17)



On the coordinate chart above, plot and <u>label</u> the following points:
A (4,2) **B** (0,2) **C** (-3,-4) **D** (-3,0)