

1pg GLO6FB

1) Solve the following proportions:

- a) $A/3 = 99/27$ **A = 11**
 b) $11/B = 77/14$ **B = 2**
 c) $9/10 = C/60$ **C = 54**
 d) $18/24 = 6/D$ **D = 8**

2) Write the ratios of the following:

a) The number of pennies in a quarter to the number of dimes in a dollar. **25:10 or 5:2**

b) The number of seconds in a minute to the number of hours in a day. **60:24 or 5:2**

3) Find the unit rate of the following examples:

- a) Price per egg at \$1.20/dzn. \$.10/egg
 b) 300 miles traveled on 12 gallons of gas. **25miles/gallon**

4) Evaluate the problems below:

- a) What is 25% of 16? **4**
 b) 7 is 20% of what? **35**
 c) What percent is 4 of 40? **10%**

5) Fill in the chart below

fraction	decimal	percent
4/5	0.8	80%
19/20	0.95	95%
1/10	0.1	10%
1/8	0.125	12.5%
3/25	0.12	12%
1/2	0.5	50%

6) Compare using <, >, =

- $3/4$ = 0.75
 -0.4 < -0.3
 0.6 = 0.6000
 $1/5$ > 0.125
 $-7/8$ > -1.0

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

- a) $A(C - D) + (3)^2 =$ **19**
 b) $B^3 - (D)(A)(C) =$ **27**

8) Solve each equation for X:

- a) $16 + X = 28$ **X = 12**
 b) $4X = 60$ **X = 15**

9) Complete the chart below.

X	Y
2	4
3	9
5	25
7	49
10	100

Write a rule for completing the chart.

$$Y = X^2$$

10) Arrange in increasing order:

$(0)^5, -0.7, 0.1, -1\frac{1}{2}, 0.9, (1)^7$
 $-1\frac{1}{2}, -0.7, (0)^5, 0.1, 0.9, (1)^7$

11) Add:

- a) $5 + 3\frac{3}{4} + \frac{5}{4} =$ **10**
 b) $2.35 + 0.014 + 6 =$ **8.364**

12) Subtract:

- a) $8 - 2\frac{1}{5} =$ **$5\frac{4}{5}$**
 b) $7\frac{3}{10} - \frac{1}{5} =$ **$7\frac{1}{10}$**
 c) $2 - 0.18 =$ **1.82**
 d) $11.1 - 3.256 =$ **7.844**

13) Multiply:

- a) $64 \times 452 =$ **28,928**
 b) $788 \times 100 =$ **78,800**
 c) $9.1 \times 0.03 =$ **0.273**
 d) $8.73 \times 10 =$ **87.3**
 e) $35 \times \frac{1}{5} =$ **7**
 f) $3\frac{1}{2} \times \frac{2}{7} =$ **1**

14) Divide:

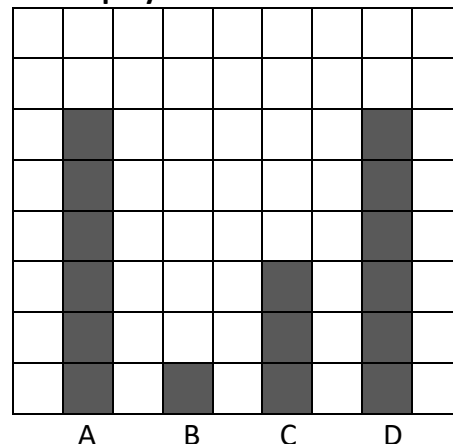
- a) $3.172 \div 0.52 =$ **6.1**
 b) $9 \div 1000 =$ **0.009**

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- c) $24 \div 0.08 =$ **300**
 d) $0.702 \div 13 =$ **0.054**
 e) $\frac{1}{5} \div \frac{1}{2} =$ **$\frac{2}{5}$**
 f) $4\frac{2}{5} \div \frac{1}{5} =$ **22**

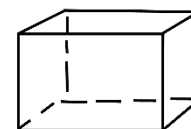
15) In the data display below, the value of column C is 6. Find the mean, median, mode and range of the display.



Mean=8 , median=9, mode=12 , range=10

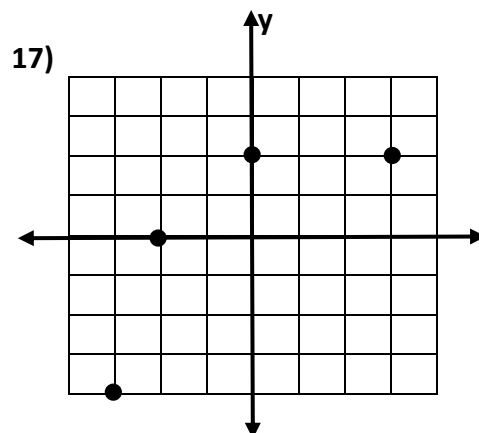
16) The volume of the rectangular prism shown below is 60 in³. Find the Length and Total Surface Area.

W = 4 in. H = 3 in.



L = 5 in.
V = 94 in²

17)



On the coordinate chart above, plot and label the following points:

A (3,2) B (0,2) C (-3,-4) D (-2,0)