

1pg GLO6FC

1) Solve the following proportions:

a) $A/6 = 55/30$ **A = 11**
b) $7/B = 63/18$ **B = 2**
c) $9/36 = C/40$ **C = 10**
d) $4/12 = 24/D$ **D = 72**

2) Write the ratios of the following:

a) The number of pennies in a half-dollar to the number of nickels in a dollar. 50:20 or 5:2

b) The number of seconds in two minutes to the number of hours in five days. 120:120 or 1:1

3) Find the unit rate of the following examples:

a) 8 pounds of lobster for \$52.00
\$6.50/pound

b) 345 miles traveled on 15 gallons of gas. 23 miles/gallon

4) Evaluate the problems below:

a) What is 25% of 40? 10

b) 9 is 20% of what? 45

c) What percent is 10 of 20? 50%

5) Fill in the chart below

fraction	decimal	percent
2/5	0.4	40%
11/20	0.55	55%
1/100	0.01	1%
1/2	0.5	50%
3/10	0.3	30%
3/4	0.75	75%

6) Compare using $<$, $>$, $=$

$$\begin{array}{rcl} 1/4 & \underline{<} & 0.75 \\ -0.8 & \underline{<} & -0.1 \\ 0.70 & \underline{>} & 0.6000 \\ 1/2 & \underline{>} & 0.12 \\ -3/8 & \underline{>} & -2.0 \end{array}$$

7) If $A = 1$, $B = 3$, $C = 5$ and $D = 0$, evaluate each expression below:

a) $A(C + D) + (A)^4 =$ **6**
b) $B^B - (D)(C)(B) =$ **27**

8) Solve each equation for X:

a) $23 + X = 32$ $X = 9$
b) $6X = 72$ $X = 12$

9) Complete the chart below.

X	Y
2	10
3	15
5	25
7	35
20	100

Write a rule for completing the chart.

$$Y = 5X \quad \text{or} \quad X = Y/5$$

10) Arrange in increasing order:

$$-0.2, (3^2), -2 \frac{1}{2}, 0.2, (1)^5, (0)^4$$

11) Add:

a) $6 + 3\frac{3}{5} + \frac{3}{5} = 10\frac{1}{5}$
b) $7.1 + 6 + 0.89 = 13.99$

12) Subtract:

a) $5 - 2^{3/4} =$ **$2^{1/4}$**
b) $9^{1/10} - ^1/5 =$ **$8^{9/10}$**
c) $4 - 0.1 =$ **3.9**
d) $8.4 - 3.25 =$ **5.15**

13) Multiply:

a) $83 \times 715 =$ **59,345**
b) $2616 \times 100 =$ **261,600**
c) $0.34 \times 0.03 =$ **0.0102**
d) $0.67 \times 10 =$ **6.7**
e) $27 \times \frac{1}{3} =$ **9**
f) $1\frac{3}{5} \times \frac{5}{8} =$ **1**

14) Divide:

a) $1344 \div 0.24 =$ **5600**
b) $0.8 \div 1000 =$ **0.0008**

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c) $32 \div 0.80 =$ **40**
d) $6.6 \div 15 =$ **0.44**
e) $\frac{4}{5} \div \frac{1}{3} =$ **$2\frac{2}{5}$**
f) $3\frac{2}{3} \div \frac{1}{3} =$ **11**

15) In the data display below, the value of column B is 3. Find the mean, median, mode and range of the display.

	A	B	C	D
1	Shaded			
2	Shaded			
3				Shaded
4	Shaded			Shaded
5	Shaded			Shaded
6	Shaded		Shaded	Shaded
7	Shaded		Shaded	Shaded
8	Shaded	Shaded	Shaded	Shaded
9				Shaded
10				Shaded

**mean=12, median=13.5, mode=18,
range=15**

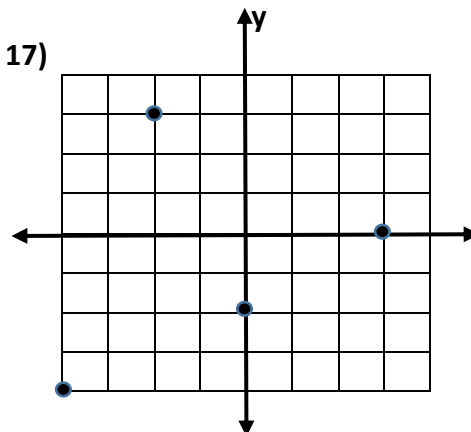
16) The volume of the rectangular prism shown below is 24 in^3 . Find the Width and Total Surface Area.

$L = 6 \text{ in.}$ $H = 2 \text{ in.}$



W=2 in. SA=56 in²

17)



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

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