

1pg GLO6FE

1) Solve the following proportions:

- a) $A/4 = 35/56$ **A = 2.5**
 b) $9/B = 2/16$ **B = 72**
 c) $15/60 = C/28$ **C = 7**
 d) $12/18 = 20/D$ **D = 30**

2) Write the ratios of the following:

a) The number of pennies in four dimes to the number of nickels in two dollars. **40:40 = 1:1**

b) The number of minutes in a half hour to the number of hours in a day and a half. **30:36 = 5:6**

3) Find the unit rate of the following examples:

- a) \$5.50 for a half hours work. **\$11/hr**
 b) 3 miles walked in $1\frac{1}{2}$ hours. **2 mph**

4) Evaluate the problems below:

- a) What is 25% of 24? **6**
 b) 6 is 20% of what? **30**
 c) What percent of 60 is 6? **10%**

5) Fill in the chart below

fraction	decimal	percent
$3/5$	0.6	60%
$3/4$	0.75	75%
$1/5$	0.2	20%
$1/8$	0.125	12.5%
$8/25$	0.32	32%
$1/50$	0.02	2%

6) Compare using <, >, =

- $3/5$ > 0.35
 -0.2 > -0.98
 0.8 > 0.08
 $6/8$ = 0.75
 $-2/5$ > -2.0

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

- a) $4(A + B + C)^2 = 400$
 b) $B^3 - C^2 = 2$

8) Solve each equation for X:

- a) $X + 17 = 30$ **X = 13**
 b) $4X = 60$ **X = 15**

9) Complete the chart below.

X	Y
2	13
3	14
5	16
7	18
989	1000

Write a rule for completing the chart.

$$Y = X + 11$$

$$X = Y - 11$$

10) Arrange in increasing order:

- 5.0, 5.5, $-2\frac{1}{2}$, 0.5, $(1)^5$
-5.0, $-2\frac{1}{2}$, 0.5, $(1)^5$, 5.5

11) Add:

- a) $13 + 2\frac{1}{2} + 7\frac{5}{6} = 23\frac{1}{3}$
 b) $7 + 1.4 + 0.028 = 8.428$

12) Subtract:

- a) $6 - 2\frac{5}{6} = 3\frac{1}{6}$
 b) $11\frac{7}{10} - 2\frac{4}{5} = 8\frac{9}{10}$
 c) $9 - 0.6 = 8.4$
 d) $15.3 - 8.202 = 7.098$

13) Multiply:

- a) $65 \times 384 = 24,960$
 b) $729 \times 100 = 72,900$
 c) $9.1 \times 0.42 = 3.822$
 d) $0.03 \times 10 = 0.3$
 e) $45 \times 1/5 = 9$
 f) $4\frac{1}{5} \times 1\frac{1}{2} = 2\frac{1}{10}$

14) Divide:

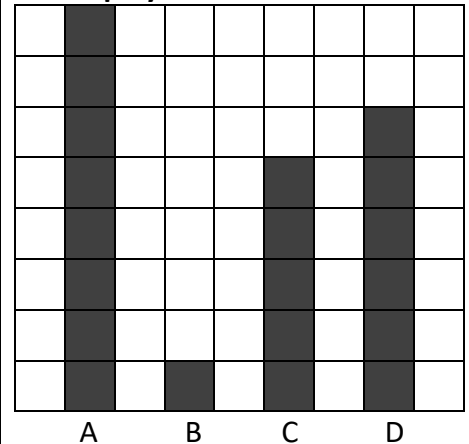
- a) $1872 \div 3.6 = 520$
 b) $2.7 \div 1000 = 0.0027$

KEY

Name _____

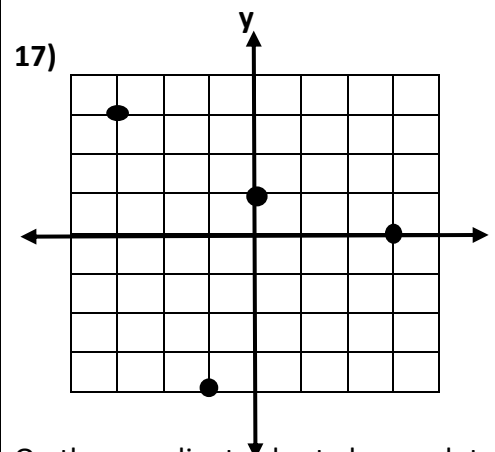
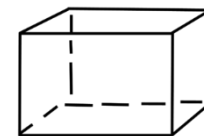
- c) $35 \div 0.70 = 50$
 d) $2.88 \div 2.4 = 1.2$
 e) $\frac{3}{4} \div 1\frac{1}{4} = \frac{3}{5}$
 f) $1\frac{2}{3} \div \frac{1}{6} = 10$

15) In the data display below, the value of column C is 10. Find the mean, median, mode and range of the display.



mean=10, median=11, no mode, range=7

16) Find the volume and the total surface area of the rectangular prism below: $V = 60 \text{ in}^3$, $TSA = 94 \text{ in}^2$
 L = 5 in. W = 4 in. H = 3 in.



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

A (-3,3) B (0,1) C (-1,-4) D (3,0)