

# 1pg GLO6FA

## 1) Solve the following proportions:

- a)  $A/7 = 88/56$
- b)  $12/B = 132/33$
- c)  $13/78 = C/30$
- d)  $9/16 = 3/D$

## 2) Write the ratios of the following:

a) The number of pennies in a dime to the number of nickels in a quarter.

b) The number of minutes in an hour to the number of hours in a day.

## 3) Find the unit rate of the following examples:

- a) Price per egg at \$2.88/dzn.
- b) 462 miles traveled on 14 gallons of gas.

## 4) Evaluate the problems below:

- a) What is 25% of 36?
- b) 12 is 20% of what?
- c) What percent is 15 of 20?

## 5) Fill in the chart below

| fraction | decimal | percent |
|----------|---------|---------|
| $3/5$    |         |         |
|          | 0.15    |         |
|          |         | 100%    |
| $3/8$    |         |         |
|          | 0.22    |         |
|          |         | 90%     |

## 6) Compare using <, >, =

- $3/4$  \_\_\_\_\_ 0.7
- 0.7 \_\_\_\_\_ -0.55
- 0.8 \_\_\_\_\_ 0.8000
- $1/8$  \_\_\_\_\_ 0.125
- $-3/5$  \_\_\_\_\_ -1.0

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

- a)  $5(C - B)^2 =$
- b)  $A^3 - (B + C) =$

## 8) Solve each equation for X:

- a)  $12 + X = 20$
- b)  $7X = 98$

## 9) Complete the chart below.

| X | Y    |
|---|------|
| 2 | 8    |
| 3 | 27   |
| 5 | 125  |
| 7 |      |
|   | 1000 |

Write a rule for completing the chart.

## 10) Arrange in decreasing order:

-0.4, 1.1,  $-3 \frac{1}{2}$ , 0.975,  $(1)^4$

## 11) Add:

- a)  $4 + 3 \frac{2}{3} + 5 \frac{5}{6} =$
- b)  $18 + 5.33 + 0.014 =$

## 12) Subtract:

- a)  $3 - 2 \frac{3}{4} =$
- b)  $6 \frac{1}{10} - 2 \frac{4}{5} =$
- c)  $8 - 1.35 =$
- d)  $12.4 - 4.771 =$

## 13) Multiply:

- a)  $78 \times 288 =$
- b)  $312 \times 100 =$
- c)  $6.3 \times 0.22 =$
- d)  $28.38 \times 10 =$
- e)  $28 \times \frac{1}{4} =$
- f)  $2 \frac{3}{5} \times \frac{5}{8} =$

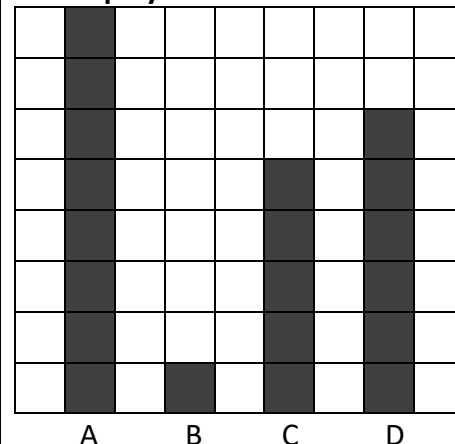
## 14) Divide:

- a)  $1872 \div 5.2 =$
- b)  $365 \div 1000 =$

Name \_\_\_\_\_

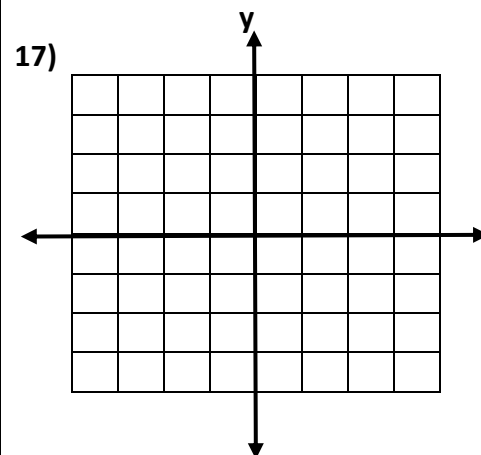
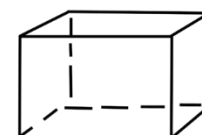
- c)  $49 \div 0.70 =$
- d)  $2.88 \div 1.2 =$
- e)  $\frac{1}{4} \div 2 \frac{1}{4} =$
- f)  $7 \frac{2}{3} \div \frac{1}{3} =$

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



16) Find the volume and the total surface area of the rectangular prism below:

L = 7 in. W = 4 in. H = 3 in.



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

A (-4,2) B (0,3) C (-1,-4) D (2,0)