

1) Solve the following proportions:

- a) $A/3 = 63/21$ **A = 9**
b) $12/B = 60/15$ **B = 3**
c) $9/11 = C/77$ **C = 63**
d) $24/28 = 6/D$ **D = 7**

2) Write the ratios of the following:

- a) The number of pennies in a nickel to the number of dimes in a dollar.

5:10 or 1:2

- b) The number of seconds in a minute to the number of hours in a half day. **60:12 or 5:1**

3) Find the unit rate of the following examples:

- a) Cost of an egg at \$3.60/dzn. **\$0.30/egg**

- b) 385 miles traveled on 11 gallons of gas. **35 miles/gallon**

4) Evaluate the problems below:

- a) What is 25% of 44? **11**
b) 12 is 20% of what? **60**
c) What percent is 4 of 4? **100%**

5) Fill in the chart below

fraction	decimal	percent
$4/5$	0.8	80%
$1/20$	0.05	5%
$1/10$	0.1	10%
$3/4$	0.75	75%
$7/50$	0.14	14%
$1/2$	0.5	50%

6) Compare using <, >, =

- $3/4$ = 0.75
- 0.4 < -0.03
0.6 = 0.6000
 $1/5$ > 0.125
 $-7/8$ > -1.0

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

- a) $A(C - D) + (B)^3 =$ **37**
b) $B^2 + (A)(C) =$ **19**

8) Solve each equation for X:

- a) $19 + X = 35$ **X = 16**
b) $4X = 30$ **X = 7 1/2**

9) Complete the chart below.

X	Y
2	4
3	9
5	25
7	49
9	81

Write a rule for completing the chart.

$Y = X^2$ or $X = \text{square root of } Y$

10) Arrange in increasing order:

-0.7, 7.0, 0.1, $(0)^7$, $-1 \frac{1}{2}$, 0.7, $(1)^7$
 $-1 \frac{1}{2}$, -0.7, $(0)^7$, 0.1, 0.7, $(1)^7$, 7.0

11) Add:

- a) $3 + 1 \frac{3}{4} + \frac{3}{8} =$ **$5 \frac{1}{8}$**
b) $7.53 + 0.044 + 5 =$ **12.574**

12) Subtract:

- a) $9 - 8 \frac{1}{5} =$ **$\frac{4}{5}$**
b) $5 \frac{3}{10} - 3 \frac{1}{5} =$ **$2 \frac{1}{10}$**
c) $3 - 0.11 =$ **2.89**
d) $1.1 - 0.256 =$ **0.844**

13) Multiply:

- a) $57 \times 412 =$ **23,484**
b) $23 \times 100 =$ **2300**
c) $4.4 \times 0.02 =$ **0.088**
d) $8.73 \times 10 =$ **87.3**
e) $55 \times \frac{1}{5} =$ **11**
f) $4 \frac{1}{2} \times \frac{2}{9} =$ **1**

14) Divide:

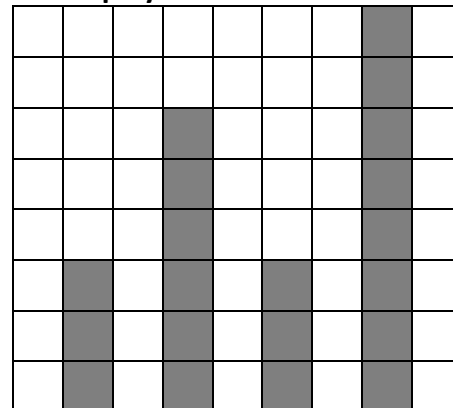
- a) $3.172 \div 0.052 =$ **61**
b) $8 \div 1000 =$ **0.008**

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- c) $24 \div 0.8 =$ **30**
d) $0.702 \div 13 =$ **0.054**
e) $\frac{1}{5} \div \frac{2}{5} =$ **$\frac{1}{2}$**
f) $4 \frac{1}{7} \div \frac{1}{7} =$ **29**

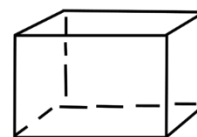
15) In the data display below, the value of column C is 9. Find the mean, median, mode and range of the display.



mean=15, median=13 1/2, mode=9, range=15

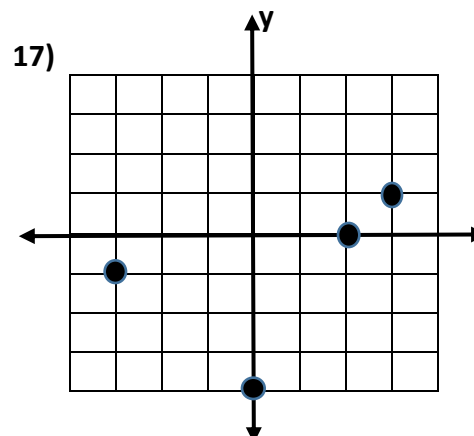
16) The volume of the rectangular prism shown below is 60 in³. Find the Width and Total Surface Area.

L = 5 in. H = 3 in.



W = 4 in. SA = 94 in²

17)



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

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