Math Maintenance – Grade 6 to 7

Name _____ Date _____

Find the average of 123, 458, 789, and 634.	$48\overline{)\$27.36}$	$\$17.25 \times 33 =$	$6.04 \times .720 =$
Circle the greatest measure: 1600 ft. 450 yd. 1 mi. 23,480 in.	Circle the largest quantity: 4 T 40,000 lb. 1,000,000 oz.	Circle the smallest measure: 8000 in. 700 ft. 200 yd.	Circle the smallest measure: 2 mi. 4000 yd. 78,000 ft.
How much greater than 10 is $18\frac{1}{8}$?	How much less than 18 is $10\frac{1}{8}$?	What number is $3\frac{4}{9}$ greater than $6\frac{1}{3}$?	What number is $7\frac{3}{8}$ greater than $4\frac{5}{12}$?
Complete the pattern:			
.1, .5, .9, 1.3, _____	1,000, 500, 250, 125, 62.5, _____	FREE	3.0, 2.2, 1.4, ____
Guess the "mystery" number:			
A number minus 5 is equal to 7. What is the number?	Three times a number is greater than 18. What's the number?	A quantity split among 6 people gives each one 7 pieces. What's the quantity?	The product of a number and 6 is less than 48. The mystery number can't be higher than _____.

Math Maintenance – Grade 6

Name _____ Date _____

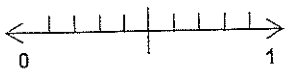
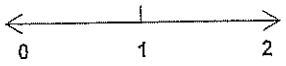
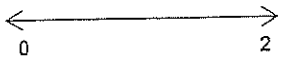
Write in exponential notation:

536 = $(5 \times 10^2) + (3 \times \_\_\_\_) +$ $(6 \times \_\_\_\_)$	4,027 = $(\_\_\_\_ \times 10^3) +$ $(2 \times \_\_\_\_) + (7 \times \_\_\_\_)$	68 = $(\_\_\_\_ \times \_\_\_\_) +$ $(\_\_\_\_ \times \_\_\_\_)$	129 =

Write the numeral for:

Forty-six thousand and twenty-two thousandths	Six and forty-two ten-thousandths	Eleven and eighteen hundredths	One hundred three and fourteen thousandths

On the number line below, place the following values:

 .6	 $\frac{1}{2}$	 1.5	 .5
$15 \div \frac{3}{5} =$	$\frac{3}{5} \div 15 =$	$17 - 10\frac{2}{7} =$	$17\frac{2}{7} - 10 =$

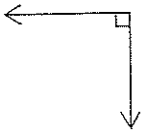
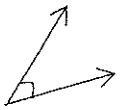
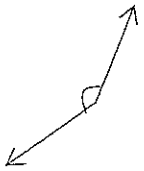
What property is being used?

$* + @ = @ + *$	$\# + 0 = \#$	$(\text{♩} \times \text{♩}) \times \text{♪} = \text{♩} \times (\text{♩} \times \text{♪})$	$a \times \frac{1}{a} = 1$

Math Maintenance – Grade 6

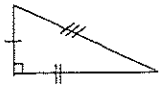
25

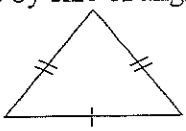
Name _____ Date _____

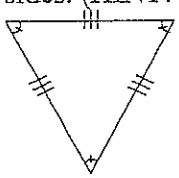
Factors: 607 and 90 Product: _____	Divisor: .24 Quotient: .0096 Dividend: _____	Quotient: .08 Dividend: .000192 Divisor: _____	Addends: 32 and 129 Sum: _____
Multiply the reciprocal of 4 by 8.16.	Divide 8 by $\frac{1}{8}$.	$20 = \square \times 3\frac{1}{3}$	Take the reciprocal of $\frac{1}{9}$ from $10\frac{3}{5}$.
$18 \times \frac{4}{9} \times \frac{0}{3} =$	$\square - 4\frac{3}{10} = 7\frac{1}{8}$	$6\frac{4}{15} - \square = 2\frac{3}{5}$	$\frac{3}{8} \div 24 =$
Classify the following angles: 			
Use >, <, = to make true statements: 400 quarters ____ $200 4000 nickels ____ $200	.045 ____ $.04\frac{1}{2}$ $\frac{4}{9}$ ____ $\frac{5}{9}$	.010 ____ .0101 .33 ____ $\frac{3}{10}$	FREE

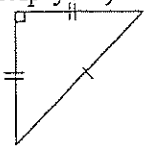
Name _____ Date _____

Classify these triangles by size of angle and length of sides. (HINT: Let markings help you.)

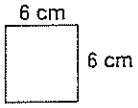




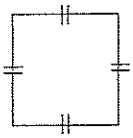




A = _____



P = _____



A = 100 sq. in.
s = _____

P = 22" w = 3"
l = _____

Take .02 from .7

79.4 exceeds 61.496 by what number?

How much greater than 7.66 is 9.83?

Find the difference between 10.4 and 7.985.

Rank from least to greatest:

.5, .059, 5.05, .505

$\frac{7}{10}, \frac{3}{4}, \frac{2}{3}, \frac{5}{6}$

$\frac{1}{25}, .3, \frac{19}{100}$

.6, .33, .4, .64

Time Zones:

If it is 7:30 PM in CA (where you live) and your friend in NJ goes to bed at 9:00, is it too late to call her?

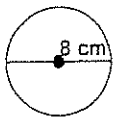
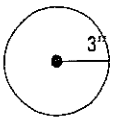
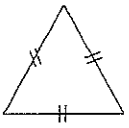
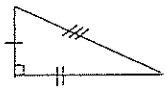
At 10:00 AM on the East Coast it is _____ in Montana.

Prime time TV starts at 9 PM in the eastern time zone. What time is that in Central time?

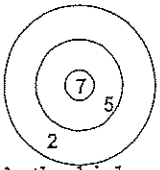
A 3 hr. flight from LA to Philadelphia begins at 8 AM Pacific time. By East Coast time when does it land?

Math Maintenance – Grade 6

Name _____ Date _____

 d = 8 cm r = ____	 r = 3" C = ____	 s = 9.2 mm P = ____	 b = 4" $y = \frac{1}{2}$" A = ____
50% of 400 =	150% of 400 =	$33\frac{1}{3}\%$ of $\frac{1}{8}$ =	$16\frac{2}{3}\%$ of 360 =
From the sum of 6.9 and 7.84 take 10.306.	From the reciprocal of $\frac{1}{9}$ take .0264.	17.419 decreased by 6.0981 is what number?	From the product of 9.4 and .5 take 1.63.
.9 × 1.8 – .026 =	6.42 + .987 – 2.4 =	(9.4 + 6.14 + 5.6) × .2 =	21 ÷ 3 + 2 × 4 – 1 =

Use the dart board to answer the questions:

In this game you throw 3 darts each turn.  What's the highest score you can get in one turn?	What is the lowest score?	Is it possible to score 25? _____ Is it possible to score a prime number by the end of a round? _____	Name an even number that could be scored at the end of a round. _____

Math Maintenance – Grade 6

Name _____ Date _____

Write as decimals:

$\frac{7}{24} =$	$\frac{5}{16} =$	$\frac{7}{11} =$	$\frac{3}{22} =$

Change to percents:

.06 =	.7 =
1.18 =	.005 =

Change to decimals:

87% =	$33\frac{1}{3}\% =$
205% =	$12\frac{1}{2}\% =$

What percent:

of 180 is 90?	of 90 is 180?	of 200 is 600?	of 80 is 50?

$7.09 \times 6.04 =$	$.3 + .44 + .555 =$	$24.4892 \div .12 =$	$41.1 = \square + 31.468$

Tell what the pattern is and give the next number:

2, 5, 15, 18, ____	14, 32, 54, 80, ____	7, 4, 12, 9, 27, ____	198, 193, 186, 177 ____

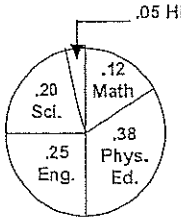
Math Maintenance – Grade 6

Name _____ Date _____

160 is what percent of 640?	80 is what percent of 400?	20 is what percent of 25?	72 is what percent of 576?
$\frac{1}{2}$% of 400 =	$\frac{1}{4}$% of 10,000 =	$\frac{1}{3}$% of 150 =	$\frac{1}{7}$% of 560 =
Write each percent as a fraction in simplest form:			
80% =	5% =	45% =	54% =
FREE	$\frac{12}{16} = \frac{x}{12}$	$\frac{5}{x} = \frac{125}{100}$	$\frac{4}{5} = \frac{80}{x}$
Use >, <, = to make true statements:			
MMCM ____ MDC XLVI ____ LXVI	$\frac{2}{3}$ ____ .7 6.2 ____ $\frac{48}{7}$	$0 \div 6$ ____ $\frac{0}{7}$ 0×7 ____ 0×8	$2 \times \frac{1}{4}$ ____ $2 \div \frac{1}{4}$ $\frac{1}{4} \times 2$ ____ $\frac{1}{4} \div 2$

Math Maintenance – Grade 6

Name _____ Date _____

$83\frac{1}{3}$% of what number is 30?	660% of what number is 11?	90% of what number is 450?	60% of what number is 480?
What is the range of the following set of numbers? 16, 42, 42, 101, 9	What is the mode of yesterday's problem?	Find the mean of the data in block 1.	What is the median of the data in block 1?
Marked price: $15.00 % of discount: 10% Discount: _____	Price: $25.00 % of discount: 15% Discount: _____ Cost: _____	Discount: $20.00 Price: $80.00 % of discount: _____	Discount: $10.00 % of discount: 40% Marked price: _____
Which metric unit would be used to measure:			
a paper clip?	a bottle of Gatorade?	a puppy?	a Flintstone vitamin?
Use the circle graph to answer the questions:			
Students' favorite subjects  What subject is most popular?	What subject received $\frac{1}{4}$ of the votes?	Which subject received under 10% of the votes?	Which 2 subjects together received half of the votes?

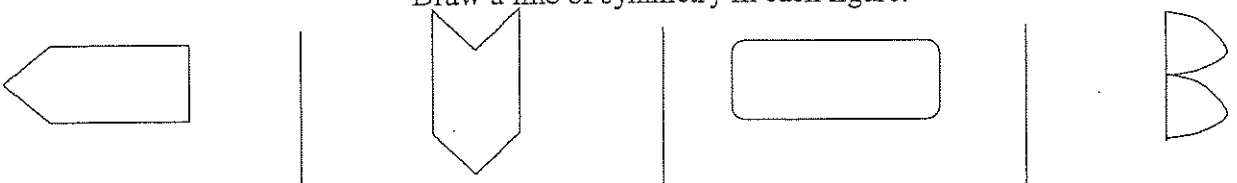
Math Maintenance – Grade 6

Name _____ Date _____

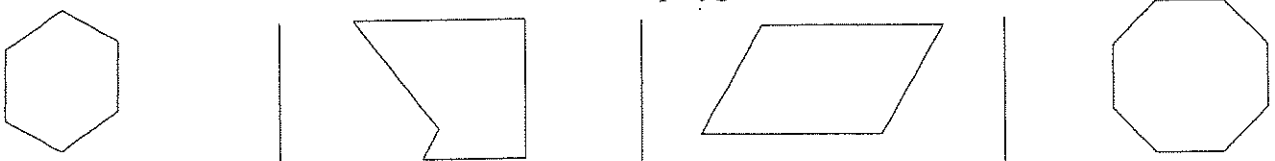
Write as decimal and percent:

$\frac{1}{11}$	$\frac{1}{25}$	$\frac{3}{8}$	$\frac{1}{7}$
$287\frac{1}{2}\%$ of 160 =	250% of 250 =	$62\frac{1}{2}\%$ of 160 =	4.5% of 180 =

Draw a line of symmetry in each figure:



Name each polygon:



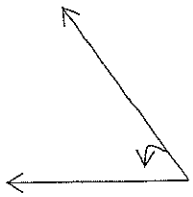
Use >, <, = to make true statements:

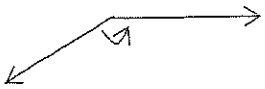
6×6 ____ $6 \div \frac{1}{6}$	$7\frac{8}{3}$ ____ 9	3 mi ____ 5,000 yd.	$\frac{2}{3}$ ____ $66\frac{2}{3}\%$
7×0 ____ $7 \times \frac{1}{2}$	$3\frac{4}{5}$ ____ $2\frac{7}{5}$	3,000 in. ____ 50 yd.	$9 \div 4$ ____ $9 \div 5$

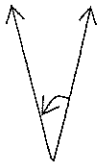
Math Maintenance – Grade 6

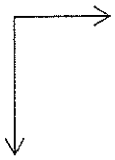
Name _____ Date _____

Estimate the number of degrees in each angle:









Name each figure described:

Quadrilateral with 4 equal sides and 4 right angles	Quadrilateral with 2 pairs of equal and parallel sides and 4 right angles	3 sided figure with one right angle	A set of points that is the same distance from an inner point called the center
What percent of 60 is 300?	What percent of $\frac{1}{4}$ is $\frac{7}{8}$?	What percent of $\frac{5}{6}$ is $\frac{1}{3}$?	What percent of $1\frac{2}{3}$ is $\frac{3}{5}$?
$\begin{array}{r} 3\,8\,2\,7 \\ +\,5\square\,9\square \\ \hline 9\,4\,2\,5 \end{array}$	$\begin{array}{r} 4\,0\,6\,1 \\ +\quad 9\square\square \\ \hline 5\,0\,1\,0 \end{array}$	$\begin{array}{r} 2\square\,8\,4 \\ +\quad 3\square\,5 \\ \hline 2\,7\,3\,9 \end{array}$	$\begin{array}{r} 3\,0\,6\,2 \\ +\quad 8\square\square \\ \hline 3\,9\,2\,1 \end{array}$

Use >, <, = to make true statements:

100% of 3 ____ 3% of 100	80% of 12 ____ 12% of 80	1.2 ____ 1.1989	*Congratulations on a job well done! Good luck next year and God bless you.*
.3 × .3 ____ .9	.9 ____ .99	$\frac{4}{5}$% of 20 ____ 20% of $\frac{4}{5}$	