

Math Maintenance – Grade 6

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$746 + \square = 9600$	$908 \times 706 =$	$789 = \square - 1348$	$7575 \div 15 =$
$604 \times 907 =$	$1000 \div 8 =$	$3000 - 498 =$	$6309 + 2691 =$
Find the sum of 689, 28, 1256, and 9.	Take 6419 from 9860.	What is the product of 60 and 408?	How much greater than 4610 is 9800?
Divide 60,705 by 15.	6984 increased by 5837 is what number?	Quotient 93 Dividend 4278 Divisor _____?	Factors: 4, 6, 9, 0, 8 Product: _____?
Use a >, <, or = sign to make the following true:			
$\frac{1}{8} \text{ — } \frac{1}{9}$ $\frac{3}{8} \text{ — } \frac{4}{8}$	$\frac{0}{6} \text{ — } 0 \div 6$ $0 \div 7 \text{ — } 0 \times 7$	FREE	MMD _____ MCML CCCXII _____ CDI

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Round to the nearest:

THOUSAND:

418,762

HUNDRED:

716,471

TEN-THOUSAND:

46,909

THOUSAND:

486,594

Circle the number closest in value to:

15,000

14,099

15,010

15,100

14,899

96,500

96,099

96,329

95,999

96,800

1650

1701

1629

1601

1750

810

679

820

828

816

What number comes next in the pattern? Explain.

1, 4, 9, 16, 25, _____

 42, 48, 46, 52, 50, 56,

1000, 200, 40, 8, _____

 4, 9, 90, 95, 950, 955,

Write the numeral for:

 Eighty-six thousand,
twenty

 Three hundred two
thousand, ten

Fifty million, five

 Seven thousand, three
hundred eighty-seven

Use $>$, $<$, $=$ to make the following true:

100 ft. _____ 30 yd.

160 ft. _____ 50 yd.

 $\frac{3}{8}$ _____ $\frac{1}{2}$
 $0 \div 8$ _____ $\frac{0}{7}$

1000 in. _____ 92 ft.

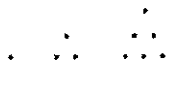
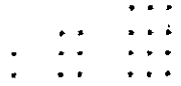


15 gal. _____ 40 qt.

 $\frac{2}{3}$ _____ $\frac{3}{4}$
 $2 \times \frac{1}{2}$ _____ $2 \div \frac{1}{2}$

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$\begin{array}{r} 496 \\ \times 78 \\ \hline \end{array}$	$84,084 \div 12 =$	$3256 + \square = 7541$	3782 exceeded by 2468 yields what number?
Order from least to greatest:			
$\frac{2}{3}, \frac{5}{6}, \frac{3}{20}, \frac{9}{10}$	$\frac{3}{4}, \frac{5}{8}, \frac{5}{6}, \frac{7}{10}$	$\frac{7}{8}, \frac{5}{6}, \frac{1}{2}, \frac{3}{10}$	$\frac{2}{5}, \frac{6}{10}, \frac{5}{11}, \frac{1}{2}$
What must be added to 64,981 to yield 90,170?	From the product of 60 and 70, take 1357.	What number exceeds 96,481 by 7204?	What number subtracted from 9135 will yield 4619?
$\begin{array}{r} 3\frac{1}{3} \\ + 9\frac{7}{8} \\ \hline \end{array}$	$16\frac{2}{7} - 10 =$	$16 - 10\frac{2}{7} =$	$7\frac{3}{5} + 9\frac{2}{3} =$
What would the next figure look like?			
 _____	 _____	 _____	 _____

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From the product of 90 and 70 take 5678.	How much less than 21,000 is 7896?	72,000 decreased by 9753 is what number?	From 16,000 take 7935.
$17 - 10\frac{5}{6} =$	$17\frac{5}{6} - 10 =$	$10\frac{3}{8} - 6\frac{5}{6} =$	$17\frac{1}{3}$ $- 8\frac{5}{12}$ <hr style="width: 50%; margin: 0 auto;"/>
$26 = \square - 3710$	$2976 \div \square = 32$	$789 \times 60 =$	$\square + 35,246 = 46,061$
$7\frac{1}{6}$ $8\frac{5}{8}$ $+ 6\frac{3}{4}$ <hr style="width: 50%; margin: 0 auto;"/>	$\frac{1}{5} + \frac{1}{5} + \frac{1}{5} =$	$\frac{1}{5} \times \frac{1}{5} \times \frac{1}{5} =$	$\frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} =$

Estimate the following answers. (Be ready to explain your reasoning.)

Rosie worked 3 days and earned \$17.75, \$21.30, and \$19.85. <u>About</u> how much did she earn?	If a \$10.00 bill is used to pay for a \$7.59 purchase, should the change be about \$4 or about \$2?	You want to buy 3 books at \$2.95 each. Will \$10 be enough?	On a shopping spree, Emil bought a coat for \$92, a shirt for \$17, and jeans for \$24. The cashier asked for \$163. Is that reasonable?
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$14\frac{3}{7} = \square - 10\frac{1}{2}$	$16\frac{5}{8} - 9 =$	$16 - 9\frac{5}{8} =$	$2\frac{1}{3} + 1\frac{1}{6} + 6\frac{7}{12} =$
Circle the largest quantity:			
2000 pt. 1300 qt. 900 gal.	1600 ft. 450 yd. 1 mi. 23,480 in.	300 gal 940 qt. 1900 pt.	110,000 in. 1600 ft. 1400 yd. 1 mi.
$6969 \div \square = 23$	$34 = 10472 \div \square$	$3826 = \square \div 20$	$78 \overline{)47112}$
$10 \times 4\frac{3}{5} =$	$\frac{1}{3} \times \frac{1}{3} \times \frac{1}{3} =$	$3\frac{1}{2} = \square \times 4\frac{3}{8}$	$2\frac{2}{3} \div 1\frac{1}{2} =$
Use >, <, = to make true statements:			
40 hr. _____ 1690 min. 3000 in. _____ 400 yd.	170 nickels _____ 35 quarters 250 dimes _____ 20 quarters	DCLX _____ CDLXVI MM _____ MCMLX	$10 \times \frac{1}{2}$ _____ $10 \div \frac{1}{2}$ $0 \times \frac{1}{9}$ _____ $0 \div \frac{1}{9}$

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$3\frac{1}{3} \div \frac{7}{9} =$	$3\frac{2}{3} \times \square = 12$	$\square \times \frac{5}{8} = 48$	$\frac{80}{5} =$ $\frac{\quad}{8}$
$\square \div \frac{5}{8} = 48$	$\frac{3}{9} \times \frac{2}{3} \times \frac{0}{5} \times \frac{1}{8} =$	$2\frac{1}{2} \times \frac{2}{5} \times 3\frac{1}{3} =$	$2\frac{1}{2} \times \frac{3}{5} \times \frac{0}{6} =$
$\begin{array}{r} 309 \\ \times 706 \\ \hline \end{array}$	$1600 \times \square = 40$	$17 \overline{)173451}$	$\begin{array}{r} 640 \\ \times 309 \\ \hline \end{array}$
$\begin{array}{r} 26\frac{1}{3} \\ -17\frac{3}{4} \\ \hline \end{array}$	$\begin{array}{r} 6\frac{9}{11} \\ +7\frac{3}{4} \\ \hline \end{array}$	$\square - 4\frac{1}{8} = 6\frac{7}{12}$	$\begin{array}{r} 6\frac{4}{9} \\ -3\frac{5}{12} \\ \hline \end{array}$

Use mental math skills only.

1950: 18,408,000 women in the labor force.
1990: 56,554,000 women in the labor force.
By how many did the number rise?

The product of 28 and 13 is _____?

Frances wants to fence in a 6' by 8' tomato garden. Will 30' of fencing do it?

Latisha started with \$100.00. She spent 1/2 of it at a game store, then 1/2 of the remainder at a sporting goods store. What did she have left?

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What property does each example show?			
$(3+8) + 5 = 3 + (8+5)$	$10 \times 12 = 12 \times 10$	$17 + 0 = 17$	$5 \times \frac{1}{5} = 1$
From the product of 90 and 70 take 4268.	The quotient is 92. The divisor is 108. Find the dividend.	To the product of 60 and 42, add 704.	What must be added to 26,491 to yield 76,000?
Round to the nearest:			
TEN THOUSAND 4,608,946	THOUSAND 648,914	HUNDRED 37,909	TEN 1,356
Write the numeral for:			
Sixty thousand and forty-one thousandths	Seventy-six thousand and fifteen ten thousandths	Forty-eight thousand twenty-two	Nine million eight hundred ten thousand one
Making a List			
A dance class offers tap, jazz, and ballet lessons at 3 different levels: beginner, intermediate, and advanced. How many combinations are available?	Five different styles of jeans are available in 5 different colors. How many combinations are available?	FREE	List the numbers that are factors of 36.

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Circle the greatest value:

<table border="1"> <tr> <td>$3 + \frac{1}{3}$</td> <td>$3 \times \frac{1}{3}$</td> </tr> <tr> <td>$3 - \frac{1}{3}$</td> <td>$3 \div \frac{1}{3}$</td> </tr> </table>	$3 + \frac{1}{3}$	$3 \times \frac{1}{3}$	$3 - \frac{1}{3}$	$3 \div \frac{1}{3}$	<table border="1"> <tr> <td>$16 - \frac{1}{2}$</td> <td>$16 \times \frac{1}{2}$</td> </tr> <tr> <td>$16 \div \frac{1}{2}$</td> <td>$16 + \frac{1}{2}$</td> </tr> </table>	$16 - \frac{1}{2}$	$16 \times \frac{1}{2}$	$16 \div \frac{1}{2}$	$16 + \frac{1}{2}$	FREE	<table border="1"> <tr> <td>$\frac{3}{4} \times 8$</td> <td>$\frac{3}{4} \div 8$</td> </tr> <tr> <td>$8 - \frac{3}{4}$</td> <td>$\frac{3}{4} + 8$</td> </tr> </table>	$\frac{3}{4} \times 8$	$\frac{3}{4} \div 8$	$8 - \frac{3}{4}$	$\frac{3}{4} + 8$
$3 + \frac{1}{3}$	$3 \times \frac{1}{3}$														
$3 - \frac{1}{3}$	$3 \div \frac{1}{3}$														
$16 - \frac{1}{2}$	$16 \times \frac{1}{2}$														
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$\frac{3}{4} \times 8$	$\frac{3}{4} \div 8$														
$8 - \frac{3}{4}$	$\frac{3}{4} + 8$														
$\begin{array}{r} 708 \\ \times 307 \\ \hline \end{array}$	$40,960 \div \square = 64$	Take 3698 from 40,000.	34,801 exceeded by 96,000 is what number?												
$82 \div 2 =$	$82 \div \frac{1}{2} =$	$1\frac{1}{3} \times \square = 3$	$\frac{3}{8} = \frac{\quad}{24}$												
Factors: $\frac{1}{2}, \frac{1}{2}$ Product: _____	How much greater than $3\frac{2}{3}$ is $6\frac{11}{12}$?	$3\frac{3}{5}$ exceeded by $4\frac{1}{2}$ is what number?	Quotient: 73 Dividend: 4234 Divisor: _____												
Perimeter and Area															
A pool measures 30' long and 15' wide. What is its area?	What is the perimeter of the pool in yesterday's block?	What is the area of a square $2\frac{1}{2}$ m on a side?	If a square garden is fenced in using 40' of fencing, what does the garden measure on a side?												

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Order from:

least to greatest

greatest to least

.04, .3, .019

.4, .044, .404, .42

 $\frac{1}{8}, \frac{1}{5}, \frac{3}{10}, \frac{2}{7}$
 $\frac{3}{5}, \frac{1}{3}, \frac{5}{11}, \frac{4}{7}$

Explain how to find the next number in these patterns.

 6, 3, $1\frac{1}{2}$, $\frac{3}{4}$, _____

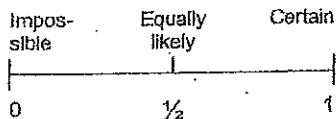
2.5, 2.9, 2.8, 3.2, 3.1, _____

4, 8, 7, 14, 13, 26, _____

.1, .5, .9, 1.3, _____

 $16.2 - 5.79 =$
 $21.6 = \square - 3.481$
 $2.7 + .48 + 3.648 =$
 $1.2 + 3.46 + \square = 9.2$
 $19 - 12\frac{5}{9} =$
 $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} =$
 $\square \times 3\frac{1}{3} = 8$
 $2\frac{1}{2} \times \frac{3}{5} \times \frac{0}{6} =$

Probability: Use the number line in the first block to answer all questions.



Probability that you will have Math homework today.

Probability that a baby born today is a girl.

Meteorologist predicts a 50% chance of snow.

A student in your class is wearing jeans today.

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Circle the number which solves the given equation:

$56 + y = 81$

- A. 15
- B. 25
- C. 35

$6C = 114$

- D. 17
- E. 18
- F. 19

$77 - g = 18$

- G. 49
- H. 59
- I. 69

$b = 16 + 19$

- J. 35
- K. 36
- L. 37

Write as a mixed number in simplest form:

$4.4 =$

$1.03 =$

$3.25 =$

$.67 =$

Estimate (no calculators please, just brains!!)

The product of 7126 and 59.

$17\frac{1}{8} - 6\frac{5}{12} =$

The product of $61 \times 91 \times 39$.

FREE

Find the perimeter of a 4 in. square.

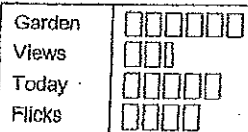
What is the side of a square with an area of 4 sq. in.?

Find the perimeter of a rectangle with $l = 8$ cm $w = 6$ cm

Find the area of yesterday's problem.

Graphs

Magazine Circulation



□ = 2 million copies

Which magazine has largest circulation?

What does the symbol of $\frac{1}{2}$ a magazine mean?

What magazine had a circulation of exactly 10 million today?

Does any magazine have a circulation under 10 million? If so, which one(s)?