Math Maintenance – Grade 5 to 6

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$14\frac{3}{10}$ -5	$9\frac{4}{5}$ $-3\frac{5}{6}$	From 19 take $7\frac{5}{6}$.	What is $6\frac{1}{4}$ less than 12?
From the product of 92 and 640 take 22,000.	What must be added to 26,481 to total 40,000?	What is the sum of 28, 2489, 6 and 942?	To the product of 90 and 70 add 5946.
$7\frac{1}{8}$ = ___ $-4\frac{3}{4}$	What is $13\frac{1}{6}$ greater than $4\frac{7}{8}$?	$6\frac{3}{11}$ = ___ $-2\frac{1}{2}$	What is $3\frac{5}{9}$ increased by $6\frac{2}{3}$?

Estimate (Brain only, please!)

$69\overline{)139,890}$	$31\overline{)92,090}$	$79 \times 19 \times 51$	$88 \times 42 \times 19$

Multiply each number by 10, 100 and 1000 using the shortcuts you know:

5 _____ _____ _____	16 _____ _____ _____	304 _____ _____ _____	29 _____ _____ _____

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$\begin{array}{r} 640 \\ \times 380 \\ \hline \end{array}$	$9648 \div 18 =$	$\begin{array}{r} 307 \\ \times 908 \\ \hline \end{array}$	$14\overline{)2187}$
$16\frac{3}{7} - 8 =$	$11\frac{3}{8} - 6 =$	What must be subtracted from $16\frac{3}{8}$ to yield 4?	From $19\frac{5}{6}$ take 7.
$\frac{3}{4} + \frac{5}{6} + \frac{1}{2} =$	$\_\_\_\_ - 6\frac{5}{8} = 2\frac{1}{5}$	What is $7\frac{3}{4}$ greater than $6\frac{7}{8}$?	$\frac{12}{25} = \_\_\_ - \frac{2}{5}$

Round to the nearest:

MILLION	HUNDRED-THOUSAND	THOUSAND	TEN-THOUSAND
649, 876,415	16,467,941	66,489,604	718,047,903

Use >, <, or = to make statements true.

6 m ____6000 mm	3500 mm ____35 m	350 dm ____4 m	500 cm ____30 dm
16 kg ____1600 g	6000 cm ____500 dm	1600 mm ____50 dm	600 ml ____6 liters

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$7\frac{2}{5}$ exceeds $4\frac{5}{8}$ by how much?	$12\frac{3}{8}$ $-\ 4\frac{7}{12}$	$16\frac{1}{8}-10\frac{5}{6}=$	$21\frac{7}{12}$ decreased by what number is $9\frac{3}{4}$?
60000 -4693	_____ ÷ 63 = 206	68 = _____ ÷34	$48\overline{)8\,6\,4\,2\,1}$
$3\frac{1}{4}\times\frac{8}{9}=$	$\frac{3}{5}\times\frac{10}{15}\times\frac{6}{7}=$	$7\times9\frac{3}{8}=$	Factors: $4\frac{1}{4}, 6\frac{2}{3}$ Product: _____
____ - $3\frac{1}{12}=7\frac{5}{8}$	$7\frac{1}{4}+1\frac{1}{2}=$	$8\frac{3}{4}+4\frac{2}{3}=$	____ $-4\frac{2}{3}=10\frac{3}{8}$
Use >, <, or = to make true statements.			
$2\div\frac{1}{2}$ ___ $2\times\frac{1}{2}$ 6×0 ___ $0\div5$	$\frac{7}{8}$ ___ $\frac{9}{10}$ $\frac{1}{13}$ ___ $\frac{1}{14}$	$3\frac{1}{2}\times0$ ___ $3\frac{1}{4}$ $\frac{2}{9}$ ___ $\frac{2}{8}$	$\frac{1}{8}\times0$ ___ $0\times\frac{1}{9}$ $\frac{1}{2}\times10$ ___ $\frac{1}{2}\div10$

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Estimate the sum or difference:			
$20\frac{1}{20}+1\frac{1}{3}=$	$18\frac{1}{4}-12\frac{3}{5}=$	$11\frac{7}{8}-\frac{5}{6}=$	$4\frac{2}{3}+10\frac{3}{8}=$
$\frac{3}{4}\times\frac{6}{9}\times\frac{12}{15}=$	$\frac{1}{2}\times\frac{1}{2}\times\frac{1}{2}=$	$1\frac{3}{5}\times 2\frac{1}{4}\times\frac{2}{3}=$	$4\frac{3}{8}\times 1\frac{5}{7}\times\frac{2}{3}=$
$\begin{array}{r} 904 \\ \times 706 \\ \hline \end{array}$	$18\times\_\_\_\_=5526$	$30{,}000=2974+\_\_$	Addends: 14,429 and 21,671 Sum: _____
$7\frac{1}{2}\div 3=$	$3\div 7\frac{1}{2}=$	$6\frac{2}{3}\div 2\frac{2}{5}=$	$5\frac{1}{4}\div 7\frac{1}{2}=$
Use >, <, or = to make true statements.			
$5\div\frac{1}{2}\_\_\_\_6\div\frac{1}{2}$	$7\frac{1}{7}\_\_\_\_\frac{8}{7}$	$7\frac{9}{7}\_\_\_8\frac{2}{7}$	$\frac{2}{3}\times\frac{2}{3}\_\_\_\frac{2}{3}\div\frac{2}{3}$
$\frac{1}{2}\times\frac{1}{2}\_\_\_\_\frac{1}{2}\div\frac{1}{2}$	$\frac{2}{3}\_\_\_\_\frac{14}{16}$	$6\div 8\_\_\_\frac{6}{8}$	$\frac{2}{5}\_\_\_2\div 5$

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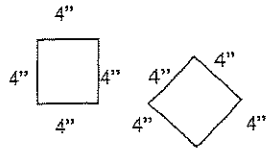
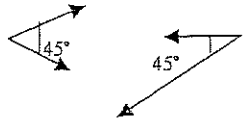
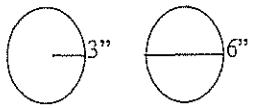
$9\frac{1}{12}$ $-4\frac{5}{16}$	$22-11\frac{5}{16}=$	$22\frac{5}{16}-11=$	$16\frac{3}{8}$ $-5\frac{7}{12}$
$87=\_\_\_\_\div 42$	$\_\_\_-24,691=75,908$	$15\overline{)304560}$	72,000 exceeds 48,932 by how much?
$4\frac{2}{7}\div 3=$	$3\div 4\frac{2}{7}=$	$2\frac{1}{4}\div 9=$	$6\frac{7}{8}\div\_\_\_=2\frac{1}{5}$
Decide whether the two figures are congruent: 			
The *commutative* property of addition states that the order of the addends will not affect the _____.	The *associative* property of multiplication states that the grouping of the _____ will not affect the product.	The *identity* property uses ___ in addition and ___ in multiplication.	"Increased by," "greater than," and "plus" are clues to the operation of _____.

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$7\frac{3}{8}$ $-4\frac{5}{6}$ _____	$6\frac{3}{7}$ decreased by $2\frac{1}{2}$ is what number?	From 9 take $4\frac{5}{9}$.	$4\frac{3}{10} = \_\_\_\_\_ + 2\frac{5}{6}$
$3\frac{1}{3} = \_\_\_ \div 5\frac{3}{4}$	Factors: $\frac{3}{8}, \frac{1}{4}$ Product:_____	$5\frac{1}{5} \div \_\_\_ = \frac{3}{10}$	$\frac{3}{8} \times \frac{4}{9} \times 1\frac{1}{2} \times \_\_\_ = 0$
Find the missing digit:			
7 8 4 1 $-\square 6 \square 7$ 3 1 5 4	2 6 9 9 $+2\square\square 9$ 4 9 1 8	9 2 1 2 $-6\ 1\ 3\ \square$ $3\ \square\ 7\ 7$	$\square$ 2, 4 6 2 7, $\square$ 2 4 $+1\ 3\ 7,9\ 2\ \square$ 1 5 8,2 1 0
Order from greatest to least:			
$\frac{1}{3}, \frac{3}{8}, \frac{1}{6}, \frac{2}{5}$	$\frac{5}{6}, \frac{9}{10}, \frac{2}{3}, \frac{7}{8}$	FREE	$\frac{1}{3}, \frac{3}{8}, \frac{1}{4}, \frac{3}{10}$
Why does a factor of 0 make multiplication easy?	"Decreased," "take from," and "less than" are clues to the operation of _____.	What do you notice about the answers to $7 \div 3\frac{1}{2}$ and $3\frac{1}{2} \div 7$?	$2\frac{1}{3} = \_\_\_ \div 5\frac{3}{4}$ If you didn't recognize this as a multiplication problem, how could setting up a simpler problem help you? What could the simpler problem be?

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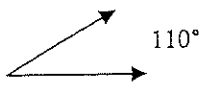
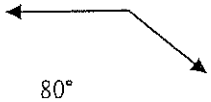
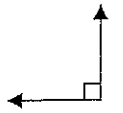
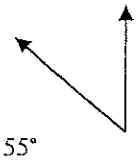
$\begin{array}{r} 408 \\ \times 307 \\ \hline \end{array}$	$\_\_\_ \div 202 = 17$	$13\overline{)3459}$	Estimate the quotient $69\overline{)139462}$
Circle the greatest value: $\frac{1}{3}+4$ | $4-\frac{1}{3}$ $\frac{1}{3}\times 4$ | $\frac{1}{3}\div 4$	Circle the greatest value: $3+\frac{1}{3}$ | $3-\frac{1}{3}$ $3\times\frac{1}{3}$ | $3\div\frac{1}{3}$	FREE	Circle the greatest value: $\frac{3}{4}+4$ | $4-\frac{3}{4}$ $\frac{3}{4}\times 4$ | $\frac{3}{4}\div 4$
What is $9\frac{3}{7}$ less than 12?	$16\frac{1}{8}$ decreased by what number is $6\frac{5}{6}$?	$3\frac{4}{9}+\_\_\_=6\frac{1}{3}$	From $7\frac{1}{6}$ take $3\frac{2}{3}$.
From the product of 60 and 72 take 2498.	Factors: 90, 63 Product: _____	$3\frac{1}{7}\times\frac{4}{5}\times 6\frac{1}{2}\times 0=\_\_\_$	Estimate the product $48 \times 21 \times 89=$
Is the given measure of each angle reasonable? 			

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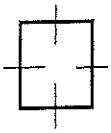
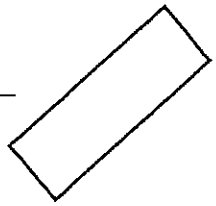
$1\frac{1}{2}\times 1\frac{1}{3}\times 1\frac{1}{4}=$	$16\div\frac{1}{2}=$	$16\div 2=$	$\frac{1}{4}\div\frac{1}{4}\times\frac{1}{4}=$
$16-10\frac{5}{6}=$	$16\frac{5}{6}-10=$	Subtract $7\frac{5}{12}$ from $10\frac{5}{8}$.	How much more than $4\frac{3}{4}$ is $6\frac{5}{6}$?
Use estimation or mental math:			
$30\overline{)120120}$	$902\times 697=$	$93\overline{)24680}$	$70\times 60-2000=$
$6\frac{1}{4}\div 2\frac{1}{5}=$	$18\div 2\frac{1}{4}=$	$1\frac{3}{7}\div 10=$	$\frac{3}{5}\div 1\frac{2}{3}=$
6'  2' P=_____	 P = 20 yd. s = _____	 s = 3" P = _____	P = 40" l = 15" w = _____ 

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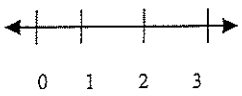
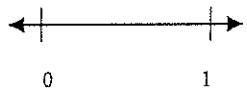
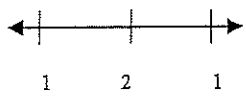
From 19 take $10\frac{5}{12}$.	$\frac{12}{25}-\frac{2}{5}=$	Take $6\frac{3}{5}$ from 9.	From $9\frac{3}{5}$ take 6.
Circle the greatest value: $2+\frac{1}{2}$ | $2-\frac{1}{2}$ $2\times\frac{1}{2}$ | $2\div\frac{1}{2}$	Circle the greatest value: $6+\frac{3}{4}$ | $6-\frac{3}{4}$ $6\times\frac{3}{4}$ | $6\div\frac{3}{4}$	Circle the greatest value: $5-\frac{1}{4}$ | $\frac{1}{4}\div 5$ $\frac{1}{4}\times 5$ | $\frac{1}{4}+5$	Circle the greatest value: $\frac{2}{3}\times 9$ | $9-\frac{2}{3}$ $\frac{2}{3}\div 9$ | $\frac{2}{3}+9$
Place each group of fractions on a number line. $\frac{1}{3},\frac{1}{4},\frac{1}{2}$  	Place each group of fractions on a number line. $2\frac{3}{4},\frac{7}{8},3\frac{1}{3}$  	Place each group of fractions on a number line. $\frac{1}{2},\frac{5}{6},\frac{3}{4}$  	Place each group of fractions on a number line. $1\frac{1}{2},1\frac{7}{8},2\frac{1}{5}$ 
Use acute, obtuse or right to describe an angle measuring: 45°	Use acute, obtuse or right to describe an angle measuring: 90°	Use acute, obtuse or right to describe an angle measuring: 21°	Use acute, obtuse or right to describe an angle measuring: 170°
Give an example of the zero property of multiplication.	Give an example of the zero property ("identity") in addition.	The example $3\times(4+5)=(3\times4)+(3\times5)$ shows the use of the _____ property.	The commutative and associative properties apply only to the operations of _____ and _____.

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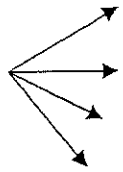
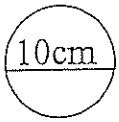
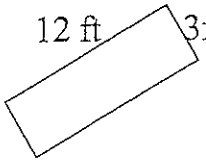
$18.49 + $30.20 =	$14.00 + $.56 =	$33.60 + $9.49 =	$.30 + $1.20 +$.83=
$14.53 - $12.65 =	$25.60 - $2.30	FREE	$12.56 - $10.21 =

A sandwich menu includes chicken salad, tuna salad, turkey and cheese or ham and cheese. With the sandwiches coffee, milk, juice or soda is served. What is the probability that a customer will order:

Ham and cheese with coffee	Egg salad	Tuna salad and soda	Not chicken salad and juice.

Use this row of blocks to draw a tree diagram of the problem above.

Chicken salad 	Egg salad	Ham and cheese	Turkey and cheese
 C = _____	Side of square = 5 cm. Area = _____	 Area = ____	Congratulations and good luck next year. God bless your efforts. Don't forget to thank your teacher.