



Christmas

Math Mystery Pictures

4th Grade

Math Mystery Picture grid with numbers for a Christmas tree shape.

2,958	2,744	1,044	4,484	2,744	2,958	2,744	1,044	2,958	2,744
2,744	1,044	4,484	2,958	2,744	2,958	2,744	1,044	2,744	2,958
2,958	4,484	1,044	4,484	2,958	3,330	2,914	3,692	7,820	1,044
1,044	2,744	4,484	7,820	7,820	1,431	7,221	1,044	4,484	2,744
2,744	2,958	2,744	7,221	5,183	7,221	2,914	7,820	5,183	2,958
4,484	1,044	7,820	1,431	3,692	3,330	7,820	5,183	2,744	2,958
2,958	2,744	7,221	5,183	7,221	5,183	7,820	2,914	3,692	1,044
1,044	2,744	2,914	7,820	7,221	5,183	7,221	2,914	7,820	4,484
2,744	7,221	5,183	7,221	5,183	7,221	5,183	7,221	2,914	7,820
1,044	4,484	2,744	1,044	5,238	5,238	4,484	2,744	1,044	2,744

MATH MOJO

5) 22 7) 33 9) 88

3) 17 9) 83

Name _____

Mystery Picture - Fractions

Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled green.

7/8	or	6/7	1/2	or	5/9
2/9	or	2/5	1/5	or	1/9
2/7	or	1/10	3/4	or	5/8
5/8	or	2/3	1/8	or	1/10

Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled yellow.

1/7	or	2/9
1/3	or	1/8
2/9	or	3/8
1/4	or	1/5

Name _____

Mystery Picture - Division

Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled yellow.

9) 740 7) 388 4) 343 2) 147 5) 291

363 7) 568 9) 212 8) 347 3) 179

Name _____

3,725	4,239	7,488	3,725	7,488	2,709	3,934	3,788	2,709	1,432
7,488	3,725	4,239	7,488	1,293	1,432	1,293	1,432	7,488	1,293
3,725	4,239	7,488	3,788	3,934	2,709	3,788	3,725	4,239	7,488
7,488	3,725	1,432	1,293	1,432	1,293	1,432	1,293	7,488	3,725
4,239	7,488 2,709	3,934	2,709	3,788	3,934	2,709	3,788	4,239 2,709	7,488
3,725	3,788	2,709 5,957	5,957	5,957	5,957	5,957	2,709 5,957	3,934	3,725
7,488	5,957 4,105	1,704	1,190 1,914	4,105	1,704	1,914 1,190	1,704	5,957 1,704	4,239
4,239	3,725	2,312	4,105	1,704	4,105	1,704	2,312	3,725	7,488
7,488	4,239	4,105 7,488	1,293 1,704	1,432	1,293	1,432 4,105	1,704 4,239	4,239	3,725
3,725	7,488	4,239	4,105 7,488	1,704	4,105	1,704 3,725	7,488	3,725	7,488

Mystery Picture - Multiplication

Multi-Digit x 1 Digit

Date _____

Name _____

Light Green

745 $\times 5$	832 $\times 9$	471 $\times 9$
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Dark Green

562 $\times 7$	947 $\times 4$	387 $\times 7$
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Tan

852 $\times 2$	821 $\times 5$
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Red

179 $\times 8$	431 $\times 3$
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Pink

289 $\times 8$

Yellow

851 $\times 7$

Black

957 $\times 2$

White

238 $\times 5$

1,044	2,958	2,744	1,044	7,221	5,183	2,744	2,958	1,044	2,958
2,744	1,044	4,484	2,958	4,484	1,044	2,744	2,744	4,484	2,744
2,958	4,484	1,044	4,484	2,914	7,820	4,484	1,044	4,484	2,744
1,044	2,744	4,484	2,914	7,820	3,330	2,914	1,044	2,744	1,044
2,744	2,958	2,744	7,221	3,692	5,183	7,221	5,183	4,484	2,744
4,484	1,044	2,914	3,692	7,820	1,431	3,692	3,330	7,820	2,744
2,958	2,744	5,183	7,221	5,183	7,221	5,183	7,221	5,183	2,958
1,044	5,183	2,914	3,330	3,692	1,431	7,820	3,330	3,692	1,044
2,744	7,221	5,183	7,221	5,183	7,221	5,183	7,221	5,183	4,484
1,044	4,484	2,744	1,044	5,238	5,238	4,484	2,744	1,044	2,744

Mystery Picture - Multiplication
Double Digit Multiplication

Date _____

Name _____

Light Blue

87×12	59×76	98×28
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Green

94×31	71×52	92×85
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White

51×58

Red

45×74	27×53
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Yellow

73×71	87×83
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Brown

54×97

3 R3	2 R2	8 R7	6R7	5 R2	9 R2	6R7	8 R7	2 R2	3 R3
8 R7	6R7	3 R3	2 R2	9 R2	5 R2	2 R2	3 R3	6R7	8 R7
2 R2	8 R7	2 R2 5 R5	9 R7	4 R5	5 R5	9 R7	8 R7 4 R5	2 R2	3 R3
6R7	3 R3 7 R2	4 R2	7 R2	2 R5	4 R2	7 R2	2 R5	3 R3 7 R2	6R7
3 R3	5 R5	2 R5 9 R7	4 R2 5 R5	4 R5	5 R5	4 R2 4 R5	2 R5 5 R5	9 R7	8 R7
2 R2	4 R5 2 R5	4 R5	9 R7	5 R5 7 R2	4 R5 4 R2	9 R7	4 R5	7 R2	3 R3
3 R3	7 R2 4 R5	9 R7	5 R5	2 R5 9 R7	7 R2 5 R5	4 R5	5 R5	2 R5 9 R7	2 R2
8 R7	5 R5	4 R5 2 R5	9 R7 7 R2	4 R5	9 R7	5 R5 4 R2	9 R7 2 R5	5 R5	6R7
2 R2	7 R2 8 R7	4 R2	2 R5	7 R2	4 R2	2 R5	7 R2	2 R5 3 R3	8 R7
6R7	3 R3	9 R7 2 R2	5 R5	4 R5	9 R7	5 R5	9 R7 3 R3	6R7	2 R2

Mystery Picture - Division

2 Digits ÷ 1 Digit

Date _____

Name _____

<p>Green</p> $5 \overline{) 22}$ $3 \overline{) 23}$ $8 \overline{) 21}$	<p>White</p> $9 \overline{) 50}$ $7 \overline{) 33}$ $9 \overline{) 88}$
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<p>Red</p> $9 \overline{) 61}$ $8 \overline{) 18}$ $9 \overline{) 79}$ $8 \overline{) 27}$	<p>Yellow</p> $3 \overline{) 17}$ $9 \overline{) 83}$
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73 R1	58 R1	73 R1	81 R1	34 R1	72 R3	81 R1	34 R1	72 R3	55 R3		
58 R1	73 R1	81 R1	34 R1	72 R3	81 R1	34 R1	72 R3	58 R1	73 R1		
73 R1	81 R1	34 R1	72 R3	81 R1	34 R1	72 R3	81 R1	34 R1	58 R1		
58 R1	85 R3	98 R3	55 R3	82 R2	85 R3	98 R3	82 R2	55 R3	73 R1		
73 R1	98 R3	23 R5	82 R2	59 R2	43 R3	23 R5	59 R2	55 R3	43 R3	98 R3	58 R1
55 R3	82 R2	43 R3	23 R5	43 R3	23 R5	43 R3	23 R5	43 R3	23 R5	82 R2	55 R3
98 R3	85 R3	55 R3	82 R2	98 R3	82 R2	55 R3	98 R3	85 R3	82 R2		
55 R3	82 R2	98 R3	72 R3	85 R3	34 R1	72 R3	81 R1	98 R3	82 R2	55 R3	98 R3
82 R2	55 R3	85 R3	98 R3	82 R2	55 R3	85 R3	98 R3	82 R2	85 R3		
58 R1	98 R3	82 R2	55 R3	85 R3	98 R3	82 R2	55 R3	85 R3	73 R1		

Mystery Picture - Division

3 Digits ÷ 1 Digit

Date _____

Name _____

White

$$8 \overline{)787} \quad 9 \overline{)740} \quad 7 \overline{)388} \quad 4 \overline{)343}$$

Blue

$$2 \overline{)147} \quad 5 \overline{)291}$$

Red

$$4 \overline{)137} \quad 5 \overline{)363} \quad 7 \overline{)568}$$

Tan

$$9 \overline{)212} \quad 8 \overline{)347}$$

Black

$$3 \overline{)179}$$

$\frac{2}{5}$	$\frac{4}{7}$	$\frac{3}{5}$	$\frac{5}{8}$	$\frac{1}{3}$	$\frac{4}{5}$	$\frac{5}{7}$	$\frac{1}{7}$	$\frac{2}{3}$	$\frac{4}{7}$
$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{8}$	$\frac{3}{4}$	$\frac{1}{6}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{1}{5}$	$\frac{5}{6}$	$\frac{3}{8}$
$\frac{1}{7}$	$\frac{1}{5}$	$\frac{5}{8}$	$\frac{4}{7}$	$\frac{1}{7}$	$\frac{2}{5}$	$\frac{3}{5}$	$\frac{5}{8}$	$\frac{1}{3}$	$\frac{2}{5}$
$\frac{3}{4}$	$\frac{4}{5}$	$\frac{5}{6}$	$\frac{2}{5}$	$\frac{1}{2}$	$\frac{2}{3}$	$\frac{4}{7}$	$\frac{1}{7}$	$\frac{5}{7}$	$\frac{4}{5}$
$\frac{5}{7}$	$\frac{5}{8}$	$\frac{2}{3}$	$\frac{3}{8}$	$\frac{4}{7}$	$\frac{1}{7}$	$\frac{2}{3}$	$\frac{2}{5}$	$\frac{5}{8}$	$\frac{1}{8}$
$\frac{4}{5}$	$\frac{1}{8}$	$\frac{4}{7}$	$\frac{1}{7}$	$\frac{2}{3}$	$\frac{2}{5}$	$\frac{3}{8}$	$\frac{4}{7}$	$\frac{4}{5}$	$\frac{1}{6}$
$\frac{1}{5}$	$\frac{1}{6}$	$\frac{2}{5}$	$\frac{1}{7}$	$\frac{2}{3}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{5}$	$\frac{3}{4}$	$\frac{1}{5}$
$\frac{3}{5}$	$\frac{5}{8}$	$\frac{1}{3}$	$\frac{5}{6}$	$\frac{4}{7}$	$\frac{1}{7}$	$\frac{2}{5}$	$\frac{1}{8}$	$\frac{5}{8}$	$\frac{1}{2}$
$\frac{2}{3}$	$\frac{1}{7}$	$\frac{3}{4}$	$\frac{1}{5}$	$\frac{1}{3}$	$\frac{5}{8}$	$\frac{5}{7}$	$\frac{4}{5}$	$\frac{2}{3}$	$\frac{2}{5}$
$\frac{2}{5}$	$\frac{4}{7}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{1}{6}$	$\frac{4}{5}$	$\frac{1}{8}$	$\frac{5}{6}$	$\frac{1}{7}$	$\frac{4}{7}$

Mystery Picture - Fractions

Reducing Fractions

Date _____

Name _____

Light Blue

Write the fractions in lowest terms.

$$\frac{4}{10} = \underline{\quad\quad} \quad \frac{2}{14} = \underline{\quad\quad} \quad \frac{6}{16} = \underline{\quad\quad}$$

$$\frac{8}{12} = \underline{\quad\quad} \quad \frac{5}{10} = \underline{\quad\quad} \quad \frac{8}{14} = \underline{\quad\quad}$$

Yellow

Write the fractions in lowest terms.

$$\frac{10}{12} = \underline{\quad\quad}$$

$$\frac{9}{15} = \underline{\quad\quad}$$

Green

Write the fractions in lowest terms.

$$\frac{10}{16} = \underline{\quad\quad} \quad \frac{2}{16} = \underline{\quad\quad} \quad \frac{3}{15} = \underline{\quad\quad}$$

$$\frac{8}{10} = \underline{\quad\quad} \quad \frac{6}{8} = \underline{\quad\quad} \quad \frac{4}{12} = \underline{\quad\quad}$$

Red

Write the fractions in lowest terms.

$$\frac{10}{14} = \underline{\quad\quad}$$

$$\frac{2}{12} = \underline{\quad\quad}$$

$\frac{5}{9}$	$\frac{2}{9}$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{3}{8}$	$\frac{2}{5}$	$\frac{7}{8}$	$\frac{2}{9}$	$\frac{1}{3}$	$\frac{3}{8}$	$\frac{2}{9}$	$\frac{7}{8}$
$\frac{7}{8}$	$\frac{3}{8}$	$\frac{1}{5}$	$\frac{7}{8}$	$\frac{2}{9}$	$\frac{1}{4}$	$\frac{5}{9}$	$\frac{2}{5}$	$\frac{1}{3}$	$\frac{5}{9}$	$\frac{1}{3}$	$\frac{5}{9}$
$\frac{1}{5}$	$\frac{5}{9}$	$\frac{1}{4}$	$\frac{2}{9}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{2}{9}$	$\frac{1}{4}$	$\frac{7}{8}$
$\frac{2}{5}$	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{2}{9}$	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{2}{9}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{10}$	$\frac{2}{7}$	$\frac{2}{5}$
$\frac{5}{9}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{3}{8}$	$\frac{1}{10}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{2}{3}$	$\frac{2}{9}$	$\frac{1}{3}$	$\frac{3}{4}$	$\frac{7}{8}$
$\frac{7}{8}$	$\frac{1}{10}$	$\frac{3}{8}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{1}{3}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{10}$	$\frac{5}{9}$
$\frac{1}{5}$	$\frac{2}{7}$	$\frac{1}{4}$	$\frac{2}{9}$	$\frac{2}{3}$	$\frac{3}{8}$	$\frac{1}{4}$	$\frac{2}{7}$	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{9}$	$\frac{1}{5}$
$\frac{2}{5}$	$\frac{1}{3}$	$\frac{3}{8}$	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{1}{3}$	$\frac{2}{9}$	$\frac{1}{10}$	$\frac{2}{3}$	$\frac{2}{7}$	$\frac{2}{7}$	$\frac{2}{5}$
$\frac{5}{9}$	$\frac{2}{3}$	$\frac{1}{10}$	$\frac{2}{7}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{2}{3}$	$\frac{2}{3}$	$\frac{7}{8}$
$\frac{7}{8}$	$\frac{2}{7}$	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{2}{9}$	$\frac{1}{3}$	$\frac{1}{10}$	$\frac{2}{7}$	$\frac{2}{7}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{5}{9}$

Mystery Picture - Fractions

Comparing Fractions

Date _____

Name _____

Green

Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled green.

$\frac{7}{8}$ or $\frac{6}{7}$

$\frac{1}{2}$ or $\frac{5}{9}$

$\frac{2}{9}$ or $\frac{2}{5}$

$\frac{1}{5}$ or $\frac{1}{9}$

Red

Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled red.

$\frac{2}{7}$ or $\frac{1}{10}$

$\frac{3}{4}$ or $\frac{5}{8}$

$\frac{5}{8}$ or $\frac{2}{3}$

$\frac{1}{12}$ or $\frac{1}{10}$

Yellow

Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled yellow.

$\frac{1}{7}$ or $\frac{2}{9}$

$\frac{1}{3}$ or $\frac{1}{8}$

$\frac{2}{9}$ or $\frac{3}{8}$

$\frac{1}{4}$ or $\frac{1}{5}$

0.28	0.98	0.08	0.7	0.15	0.28	0.7	0.44	0.52	0.98
0.7	0.1	0.44	0.52	0.98	0.7 0.5	0.39	0.2	0.85	0.7 0.2
0.52	0.28	0.7	0.15	0.44 0.19	0.75	0.19	0.3	0.75	0.07
0.08	0.98	0.44	0.28 0.2	0.5	0.85	0.39 0.15	0.7	0.5	0.39
0.7	0.1	0.52 0.19	0.75	0.3	0.07 0.1	0.98	0.15	0.19	0.75
0.52	0.08 0.39	0.85	0.2	0.5 0.52	0.08	0.7	0.52	0.85	0.39 0.15
0.7 0.75	0.07	0.19	0.3 0.44	0.7	0.1	0.98	0.28	0.15	0.7
0.5	0.39	0.2 0.7	0.98	0.28	0.52	0.15	0.7	0.44	0.98
0.3	0.07 0.15	0.44	0.1	0.7	0.15	0.98	0.52	0.28	0.1
0.7	0.98	0.52	0.28	0.44	0.08	0.1	0.15	0.7	0.98

Mystery Picture - Fractions

Fractions and Decimals

Date _____

Name _____

White Change the fractions to decimals.

$\frac{5}{10} = \underline{\hspace{2cm}}$ $\frac{39}{100} = \underline{\hspace{2cm}}$

$\frac{20}{100} = \underline{\hspace{2cm}}$ $\frac{85}{100} = \underline{\hspace{2cm}}$

Red Change the fractions to decimals.

$\frac{7}{100} = \underline{\hspace{2cm}}$ $\frac{3}{10} = \underline{\hspace{2cm}}$

$\frac{19}{100} = \underline{\hspace{2cm}}$ $\frac{75}{100} = \underline{\hspace{2cm}}$

Green Change the fractions to decimals.

$\frac{7}{10} = \underline{\hspace{2cm}}$ $\frac{52}{100} = \underline{\hspace{2cm}}$ $\frac{8}{100} = \underline{\hspace{2cm}}$ $\frac{1}{10} = \underline{\hspace{2cm}}$

$\frac{98}{100} = \underline{\hspace{2cm}}$ $\frac{28}{100} = \underline{\hspace{2cm}}$ $\frac{44}{100} = \underline{\hspace{2cm}}$ $\frac{15}{100} = \underline{\hspace{2cm}}$

8	14	15	4 2	7	13	9 11	15	4	14		
4	9	10	3	20	5	3	21	7	10	9	8
14	8	15	13	7	5	2	16	14	6		
10	4	6	11 14	19 2	17 3	13 4	8	9	15		
6 13	20	11	3	7	11	3	7	22	2 8		
8 2	18	7	5	2	18	22	5	13	11	21	5 4
4	16	12	13	11	3	7	16	10	15		
9	6	8 13	7	2	21	18	7	5	13 9	14	8
14	15 18	11	5	13	3	7	11	22 4	9		
10	2	20	13 9	15	8	14 2	18	7	10		

Mystery Picture - Prime and Composite Numbers

Date _____

Name _____

Brown Prime numbers between 1 - 15
List them and then color them on the drawing above

Red Prime numbers between 16 - 20
List them and then color them on the drawing above

Green Composite numbers between 1 - 17
List them and then color them on the drawing above

White Composite numbers between 17 - 23
List them and then color them on the drawing above

Answer Key

Page 3: Multi-Digit Numbers Times 1 Digit Numbers

3,725	4,239	7,488	3,725	7,488	2,709	3,934	3,788	2,709	1,432
7,488	3,725	4,239	7,488	1,293	1,432	1,293	1,432	7,488	1,293
3,725	4,239	7,488	3,788	3,934	2,709	3,788	3,725	4,239	7,488
7,488	3,725	1,432	1,293	1,432	1,293	1,432	1,293	7,488	3,725
4,239	7,488	3,934	2,709	3,788	3,934	2,709	3,788	4,239	7,488
3,725	3,788	2,709	5,957	5,957	5,957	5,957	3,934	3,725	
7,488	5,957	1,704	1,190	1,914	4,105	1,704	1,914	1,190	1,704
4,239	3,725	2,312	4,105	1,704	4,105	1,704	2,312	3,725	7,488
7,488	4,239	4,105	1,293	1,432	1,293	1,432	1,704	4,239	3,725
3,725	7,488	4,239	4,105	1,704	4,105	1,704	7,488	3,725	7,488

Mystery Picture - Multiplication
Multi-digit x 1 Digit

Date _____
Name _____

Light Green	745	832	471	Dark Green	562	947	387
	$\begin{array}{r} 745 \\ \times 5 \\ \hline 3,725 \end{array}$	$\begin{array}{r} 832 \\ \times 9 \\ \hline 7,488 \end{array}$	$\begin{array}{r} 471 \\ \times 9 \\ \hline 4,239 \end{array}$		$\begin{array}{r} 562 \\ \times 7 \\ \hline 3,934 \end{array}$	$\begin{array}{r} 947 \\ \times 4 \\ \hline 3,788 \end{array}$	$\begin{array}{r} 387 \\ \times 7 \\ \hline 2,709 \end{array}$

Tan	852	821	Red	179	431	Pink	289	Yellow	851	Black	957	White	238
	$\begin{array}{r} 852 \\ \times 2 \\ \hline 1,704 \end{array}$	$\begin{array}{r} 821 \\ \times 5 \\ \hline 4,105 \end{array}$		$\begin{array}{r} 179 \\ \times 8 \\ \hline 1,432 \end{array}$	$\begin{array}{r} 431 \\ \times 3 \\ \hline 1,293 \end{array}$		$\begin{array}{r} 289 \\ \times 8 \\ \hline 2,312 \end{array}$		$\begin{array}{r} 851 \\ \times 7 \\ \hline 5,957 \end{array}$		$\begin{array}{r} 957 \\ \times 2 \\ \hline 1,914 \end{array}$		$\begin{array}{r} 238 \\ \times 5 \\ \hline 1,190 \end{array}$

Page 4: Double Digit Multiplication

1,044	2,958	2,744	1,044	4,484	5,183	2,744	2,958	1,044	2,958
2,744	1,044	4,484	2,958	2,744	2,744	4,484	1,044	5,183	2,744
2,958	4,484	1,044	4,484	7,820	3,330	2,914	1,044	2,744	2,958
1,044	2,744	4,484	3,692	7,820	1,431	7,820	1,044	4,484	2,744
2,744	2,958	2,744	7,221	5,183	7,221	5,183	4,484	2,744	2,958
4,484	1,044	7,820	3,692	3,330	7,820	5,183	1,044	2,744	
2,958	2,744	5,183	7,221	5,183	7,221	5,183	7,221	2,744	2,958
1,044	2,744	2,914	3,330	3,692	1,431	7,820	3,330	1,044	
2,744	7,221	5,183	7,221	5,183	7,221	5,183	7,221	5,183	4,484
1,044	4,484	2,744	1,044	5,238	5,238	4,484	2,744	1,044	2,744

Mystery Picture - Multiplication
Double Digit Multiplication

Date _____
Name _____

Light Blue	87	59	98	Green	94	71	92
	$\begin{array}{r} 87 \\ \times 12 \\ \hline 1,044 \end{array}$	$\begin{array}{r} 59 \\ \times 76 \\ \hline 4,484 \end{array}$	$\begin{array}{r} 98 \\ \times 28 \\ \hline 2,744 \end{array}$		$\begin{array}{r} 94 \\ \times 31 \\ \hline 2,914 \end{array}$	$\begin{array}{r} 71 \\ \times 52 \\ \hline 3,692 \end{array}$	$\begin{array}{r} 92 \\ \times 85 \\ \hline 7,820 \end{array}$

White	51	Red	45	27	Yellow	73	87	Brown	54
	$\begin{array}{r} 51 \\ \times 58 \\ \hline 2,958 \end{array}$		$\begin{array}{r} 45 \\ \times 74 \\ \hline 3,330 \end{array}$	$\begin{array}{r} 27 \\ \times 53 \\ \hline 1,431 \end{array}$		$\begin{array}{r} 73 \\ \times 71 \\ \hline 5,183 \end{array}$	$\begin{array}{r} 87 \\ \times 83 \\ \hline 7,221 \end{array}$		$\begin{array}{r} 54 \\ \times 97 \\ \hline 5,238 \end{array}$

Page 5: 2 Digits Divided By 1 Digit

3 R3	2 R2	8 R7	6 R7	5 R2	9 R2	6 R7	8 R7	2 R2	3 R3
8 R7	6 R7	3 R3	2 R2	9 R2	5 R2	2 R2	3 R3	6 R7	8 R7
2 R2	8 R7	2 R2	9 R7	4 R5	5 R5	9 R7	4 R5	2 R2	3 R3
6 R7	3 R3	4 R2	7 R2	2 R5	4 R2	7 R2	2 R5	3 R3	6 R7
3 R3	5 R5	9 R7	2 R5	4 R5	5 R5	4 R5	2 R5	9 R7	8 R7
2 R2	4 R5	4 R5	9 R7	5 R5	4 R5	9 R7	4 R5	7 R2	3 R3
3 R3	7 R2	4 R5	9 R7	5 R5	2 R5	7 R2	4 R5	2 R5	2 R2
8 R7	5 R5	4 R5	9 R7	2 R5	7 R2	4 R5	9 R7	5 R5	6 R7
2 R2	7 R2	4 R2	2 R5	7 R2	4 R2	2 R5	7 R2	2 R5	8 R7
6 R7	3 R3	2 R2	5 R5	4 R5	9 R7	5 R5	3 R3	6 R7	2 R2

Mystery Picture - Division
2 Digits ÷ 1 Digit

Date _____
Name _____

Green	4 R2	7 R2	2 R5	White	5 R5	4 R5	9 R7
	$\begin{array}{r} 4 \overline{)22} \\ 8 \\ \hline 22 \\ 0 \end{array}$	$\begin{array}{r} 7 \overline{)23} \\ 14 \\ \hline 23 \\ 0 \end{array}$	$\begin{array}{r} 2 \overline{)21} \\ 10 \\ \hline 21 \\ 0 \end{array}$		$\begin{array}{r} 5 \overline{)50} \\ 10 \\ \hline 50 \\ 0 \end{array}$	$\begin{array}{r} 4 \overline{)33} \\ 8 \\ \hline 33 \\ 0 \end{array}$	$\begin{array}{r} 9 \overline{)88} \\ 18 \\ \hline 88 \\ 0 \end{array}$

Red	6 R7	2 R2	8 R7	3 R3	Yellow	5 R2	9 R2
	$\begin{array}{r} 6 \overline{)61} \\ 10 \\ \hline 61 \\ 0 \end{array}$	$\begin{array}{r} 2 \overline{)18} \\ 9 \\ \hline 18 \\ 0 \end{array}$	$\begin{array}{r} 8 \overline{)79} \\ 15 \\ \hline 79 \\ 0 \end{array}$	$\begin{array}{r} 3 \overline{)27} \\ 9 \\ \hline 27 \\ 0 \end{array}$		$\begin{array}{r} 5 \overline{)17} \\ 3 \\ \hline 17 \\ 0 \end{array}$	$\begin{array}{r} 9 \overline{)83} \\ 18 \\ \hline 83 \\ 0 \end{array}$

Page 6: 3 Digits Divided By 1 Digit

73 R1	58 R1	73 R1	81 R1	34 R1	72 R3	81 R1	34 R1	72 R3	55 R3
58 R1	73 R1	81 R1	34 R1	72 R3	81 R1	34 R1	72 R3	58 R1	73 R1
73 R1	81 R1	34 R1	72 R3	81 R1	34 R1	72 R3	81 R1	34 R1	58 R1
58 R1	85 R3	98 R3	55 R3	82 R2	85 R3	98 R3	82 R2	55 R3	73 R1
73 R1	98 R3	23 R5	82 R2	59 R2	43 R3	23 R5	59 R2	43 R3	98 R3
55 R3	82 R2	43 R3	23 R5	43 R3	23 R5	43 R3	23 R5	43 R3	23 R5
98 R3	85 R3	55 R3	82 R2	98 R3	82 R2	55 R3	98 R3	85 R3	82 R2
55 R3	82 R2	98 R3	85 R3	72 R3	34 R1	72 R3	81 R3	82 R2	55 R3
82 R2	55 R3	85 R3	98 R3	82 R2	55 R3	85 R3	98 R3	82 R2	85 R3
58 R1	98 R3	82 R2	55 R3	85 R3	98 R3	82 R2	55 R3	85 R3	73 R1

Mystery Picture - Division
3 Digits ÷ 1 Digit

Date _____
Name _____

White	98 R3	82 R2	55 R3	85 R3	Blue	73 R1	58 R1
	$\begin{array}{r} 98 \overline{)787} \\ 196 \\ \hline 787 \\ 0 \end{array}$	$\begin{array}{r} 82 \overline{)740} \\ 164 \\ \hline 740 \\ 0 \end{array}$	$\begin{array}{r} 55 \overline{)388} \\ 110 \\ \hline 388 \\ 0 \end{array}$	$\begin{array}{r} 85 \overline{)343} \\ 68 \\ \hline 343 \\ 0 \end{array}$		$\begin{array}{r} 73 \overline{)147} \\ 214 \\ \hline 147 \\ 0 \end{array}$	$\begin{array}{r} 58 \overline{)291} \\ 116 \\ \hline 291 \\ 0 \end{array}$

Red	34 R1	72 R3	81 R1	Tan	23 R5	43 R3	Black	59 R2
	$\begin{array}{r} 34 \overline{)137} \\ 68 \\ \hline 137 \\ 0 \end{array}$	$\begin{array}{r} 72 \overline{)363} \\ 144 \\ \hline 363 \\ 0 \end{array}$	$\begin{array}{r} 81 \overline{)568} \\ 112 \\ \hline 568 \\ 0 \end{array}$		$\begin{array}{r} 23 \overline{)212} \\ 46 \\ \hline 212 \\ 0 \end{array}$	$\begin{array}{r} 43 \overline{)347} \\ 69 \\ \hline 347 \\ 0 \end{array}$		$\begin{array}{r} 59 \overline{)179} \\ 35 \\ \hline 179 \\ 0 \end{array}$

Answer Key

Page 7: Reducing Fractions

2/5	4/7	3/5	5/8	1/3	4/5	5/7	1/7	2/3	4/7
2/3	1/2	1/8	3/4	1/6	5/8	3/4	1/5	5/6	3/8
1/7	1/5	5/8	4/7	1/7	2/5	3/5	5/8	1/3	2/5
3/4	4/5	5/6	2/5	1/2	2/3	4/7	1/7	5/7	4/5
5/7	5/8	2/3	3/8	4/7	1/7	2/3	2/5	5/8	1/8
4/5	1/8	4/7	1/7	2/3	2/5	3/8	4/7	4/5	1/6
1/5	1/6	2/5	1/7	2/3	1/2	3/8	3/5	3/4	1/5
3/5	5/8	1/3	5/6	4/7	1/7	2/5	1/8	5/8	1/2
2/3	1/7	3/4	1/5	1/3	5/8	5/7	4/5	2/3	2/5
2/5	4/7	1/2	5/8	1/6	4/5	1/8	5/6	1/7	4/7

Mystery Picture - Fractions
Reducing Fractions

Date _____
Name _____

<p>Light Blue Write the fractions in lowest terms.</p> $\frac{4}{10} = \frac{2}{5}$ $\frac{2}{14} = \frac{1}{7}$ $\frac{6}{16} = \frac{3}{8}$	<p>Yellow Write the fractions in lowest terms.</p> $\frac{10}{12} = \frac{5}{6}$
<p>Green Write the fractions in lowest terms.</p> $\frac{8}{12} = \frac{2}{3}$ $\frac{5}{10} = \frac{1}{2}$ $\frac{8}{14} = \frac{4}{7}$	<p>Red Write the fractions in lowest terms.</p> $\frac{9}{15} = \frac{3}{5}$
<p>Green Write the fractions in lowest terms.</p> $\frac{10}{16} = \frac{5}{8}$ $\frac{2}{16} = \frac{1}{8}$ $\frac{3}{15} = \frac{1}{5}$	<p>Red Write the fractions in lowest terms.</p> $\frac{10}{14} = \frac{5}{7}$
<p>Green Write the fractions in lowest terms.</p> $\frac{8}{10} = \frac{4}{5}$ $\frac{6}{8} = \frac{3}{4}$ $\frac{4}{12} = \frac{1}{3}$	<p>Red Write the fractions in lowest terms.</p> $\frac{2}{12} = \frac{1}{6}$

Page 8: Comparing Fractions

5/9	2/9	1/4	1/3	3/8	2/5	2/9	1/3	3/8	2/9	7/8
7/8	3/8	1/5	7/8	2/9	1/4	5/9	2/5	1/3	5/9	5/9
1/5	1/4	2/9	3/8	1/4	1/3	1/3	2/9	1/4	1/5	1/5
2/5	3/4	2/3	2/9	1/4	1/3	2/9	3/8	1/4	2/7	2/5
5/9	2/7	2/9	3/8	1/10	1/4	3/8	2/9	1/3	3/4	7/8
7/8	1/10	3/8	2/7	2/9	1/3	3/4	3/8	1/4	1/10	5/9
1/5	2/7	1/4	2/9	2/3	3/8	1/4	2/7	3/4	1/3	2/9
2/5	1/3	3/8	3/4	3/4	1/3	2/9	1/10	2/3	2/7	2/5
5/9	2/3	1/10	2/7	1/4	3/8	3/4	1/10	2/3	2/3	7/8
7/8	2/7	3/4	2/3	2/9	1/3	1/10	2/7	3/4	3/4	5/9

Mystery Picture - Fractions
Comparing Fractions

Date _____
Name _____

<p>Green Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled green.</p> $\frac{7}{8}$ or $\frac{6}{7}$ $\frac{1}{2}$ or $\frac{5}{9}$	<p>Yellow Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled yellow.</p> $\frac{1}{7}$ or $\frac{2}{9}$
<p>Green Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled green.</p> $\frac{2}{9}$ or $\frac{2}{5}$ $\frac{1}{5}$ or $\frac{1}{9}$	<p>Yellow Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled yellow.</p> $\frac{1}{3}$ or $\frac{1}{8}$
<p>Red Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled red.</p> $\frac{2}{7}$ or $\frac{1}{10}$ $\frac{3}{4}$ or $\frac{5}{8}$	<p>Red Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled red.</p> $\frac{2}{9}$ or $\frac{3}{8}$
<p>Red Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled red.</p> $\frac{5}{8}$ or $\frac{2}{3}$ $\frac{1}{12}$ or $\frac{1}{10}$	<p>White Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled white.</p> $\frac{1}{4}$ or $\frac{1}{5}$

Page 9: Equivalent Fractions

0.28	0.98	0.08	0.7	0.15	0.28	0.7	0.44	0.52	0.98
0.7	0.1	0.44	0.52	0.98	0.7	0.39	0.2	0.85	0.2
0.52	0.28	0.7	0.15	0.44	0.75	0.19	0.3	0.75	0.07
0.08	0.98	0.44	0.28	0.2	0.5	0.85	0.39	0.15	0.7
0.7	0.1	0.52	0.75	0.3	0.07	0.1	0.98	0.15	0.19
0.52	0.08	0.85	0.2	0.5	0.08	0.7	0.52	0.85	0.39
0.7	0.39	0.15	0.52	0.75	0.07	0.1	0.98	0.15	0.19
0.5	0.39	0.2	0.7	0.98	0.28	0.52	0.15	0.7	0.44
0.3	0.07	0.44	0.1	0.7	0.15	0.98	0.52	0.28	0.1
0.7	0.98	0.52	0.28	0.44	0.08	0.1	0.15	0.7	0.98

Mystery Picture - Fractions
Fractions and Decimals

Date _____
Name _____

<p>White Change the fractions to decimals.</p> $\frac{5}{10} = 0.5$ $\frac{39}{100} = 0.39$	<p>Red Change the fractions to decimals.</p> $\frac{7}{100} = 0.07$ $\frac{3}{10} = 0.3$
<p>Green Change the fractions to decimals.</p> $\frac{20}{100} = 0.2$ $\frac{85}{100} = 0.85$	<p>Red Change the fractions to decimals.</p> $\frac{19}{100} = 0.19$ $\frac{75}{100} = 0.75$
<p>Green Change the fractions to decimals.</p> $\frac{7}{10} = 0.7$ $\frac{52}{100} = 0.52$ $\frac{8}{100} = 0.08$ $\frac{1}{10} = 0.1$	<p>Red Change the fractions to decimals.</p> $\frac{98}{100} = 0.98$ $\frac{28}{100} = 0.28$ $\frac{44}{100} = 0.44$ $\frac{15}{100} = 0.15$

Page 10: Prime and Composite Numbers

8	14	15	4	7	13	9	15	4	14
4	9	10	3	20	5	3	21	7	10
14	8	15	13	7	5	2	16	14	6
10	4	6	11	19	17	13	8	9	15
6	13	20	11	3	7	11	3	7	22
8	18	7	5	2	18	22	5	13	11
4	16	12	13	11	3	7	16	10	15
9	6	8	13	7	2	18	7	5	13
14	15	11	5	13	3	7	11	4	9
10	2	20	13	9	15	8	14	2	18

Mystery Picture - Prime and Composite Numbers

Date _____
Name _____

<p>Brown Prime numbers between 1 - 15 List them and then color them on the drawing above</p> <p>2, 3, 5, 7, 11, 13</p>	<p>Red Prime numbers between 16 - 20 List them and then color them on the drawing above</p> <p>17, 19</p>
<p>Green Composite numbers between 1 - 17 List them and then color them on the drawing above</p> <p>4, 6, 8, 9, 10, 12, 14, 15, 16</p>	<p>White Composite numbers between 17 - 23 List them and then color them on the drawing above</p> <p>18, 20, 21, 22</p>