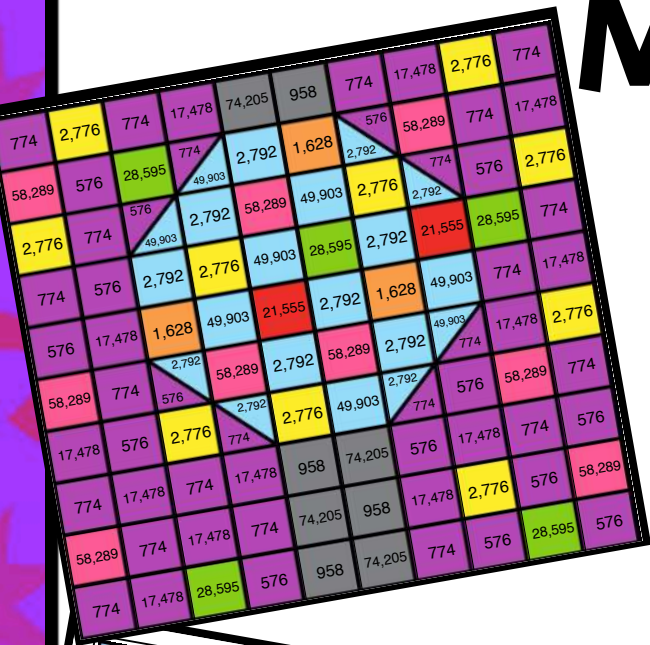


NEW YEAR

Math Mystery Pictures

4th Grade



Mystery Picture - Addition

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

Prime numbers
List them and then color them on the drawing above.

Composite numbers
List them and then color them on the drawing above.

MATH MOJO

Mystery Picture - Division

31 R7	84 R1	32 R3	99 R2	84 R1	32 R3	99 R2	84 R1	32 R3	93 R1
32 R3	99 R2	47 R8	24 R5	47 R8	22 R1	55 R2	47 R8	49 R1	99 R2
84 R1	49 R1	22 R1	47 R8	24 R5	47 R8	24 R5	55 R2	47 R8	32 R3
99 R2	47 R8	49 R1	24 R5	47 R8	93 R1	31 R7	55 R2	47 R8	24 R5
32 R3	24 R5	24 R5	47 R8	49 R1	49 R1	47 R8	24 R5	47 R8	84 R1
84 R1	47 R8	49 R1	24 R5	47 R8	24 R5	49 R1	47 R8	49 R1	24 R5
99 R2	24 R5	49 R1	47 R8	24 R5	49 R1	47 R8	24 R5	22 R1	47 R8
32 R3	47 R8	55 R2	49 R1	24 R5	47 R8	24 R5	22 R1	47 R8	84 R1
84 R1	99 R2	24 R5	47 R8	24 R5	55 R2	47 R8	49 R1	47 R8	99 R2
93 R1	32 R3	84 R1	99 R2	32 R3	84 R1	99 R2	32 R3	84 R1	31 R7

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

Composite numbers between 3 - 10
List them and then color them on the drawing above.

Math Problems:

7) 173	9) 431	4) 197	8) 259	5) 421
9) 199	5) 277	8) 202	5) 173	4)

Mystery Picture - Multiplication

7,954	1,494	1,292	1,494	5,251	714	7,954	5,251	714	7,954	5,251
1,292	1,494	1,292	7,954	5,251	1,292	1,494	7,954	5,251	714	7,954
5,251	1,292	1,494	1,292	1,494	1,292	1,494	7,954	5,251	714	7,954
7,954	1,494	1,292	1,494	1,292	1,292	5,293	5,293	714	7,954	5,251
714	7,954	1,292	1,494	1,292	5,293	5,293	5,293	5,251	714	7,954
5,251	1,494	1,292	1,798	1,147	2,925	1,798	1,147	7,954	714	7,954
7,954	2,925	1,147	1,798	1,798	1,147	714	3,458	1,798	7,954	5,251
5,251	714	1,798	2,304	2,813	2,304	2,813	1,798	2,925	1,798	714
714	7,954	2,925	2,813	2,304	2,813	2,304	1,147	7,954	714	7,954
7,954	5,251	1,147	1,147	2,304	2,813	2,925	1,147	7,954	714	7,954

Math Problems:

82 x 97	59 x 89	21 x 34	29 x 62	75 x 39	31 x 37
83 x 18	34 x 38	48 x 48	97 x 29	79 x 67	38 x 91

774	2,776	774	17,478	74,205	958	774	17,478	2,776	774
58,289	576	28,595	774 49,903	2,792	1,628	576 2,792	58,289	774	17,478
2,776	774	576 49,903	2,792	58,289	49,903	2,776	774 2,792	576	2,776
774	576	2,792	2,776	49,903	28,595	2,792	21,555	28,595	774
576	17,478	1,628	49,903	21,555	2,792	1,628	49,903	774	17,478
58,289	774	2,792 576	58,289	2,792	58,289	2,792	49,903 774	17,478	2,776
17,478	576	2,776	2,792 774	2,776	49,903	2,792 774	576	58,289	774
774	17,478	774	17,478	958	74,205	576	17,478	774	576
58,289	774	17,478	774	74,205	958	17,478	2,776	576	58,289
774	17,478	28,595	576	958	74,205	774	576	28,595	576

Mystery Picture - Multiplication

Multi-Digit Multiplication

Date _____

Name _____

Purple

$$\begin{array}{r} 258 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1,942 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 192 \\ \times 3 \\ \hline \end{array}$$

Pink

$$\begin{array}{r} 8,327 \\ \times 7 \\ \hline \end{array}$$

Yellow

$$\begin{array}{r} 694 \\ \times 4 \\ \hline \end{array}$$

Red

$$\begin{array}{r} 7,185 \\ \times 3 \\ \hline \end{array}$$

Light Blue

$$\begin{array}{r} 349 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7,129 \\ \times 7 \\ \hline \end{array}$$

Gray

$$\begin{array}{r} 479 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8,245 \\ \times 9 \\ \hline \end{array}$$

Orange

$$\begin{array}{r} 814 \\ \times 2 \\ \hline \end{array}$$

Green

$$\begin{array}{r} 5,719 \\ \times 5 \\ \hline \end{array}$$

7,954 1,494	1,292	7,954 1,494	5,251	714	7,954	5,251	714	7,954	5,251
1,292	1,494	1,292	7,954 1,494	5,251 1,292	1,494	7,954	5,251	714	7,954
1,494 5,251	1,292	1,494	1,292	1,494	1,292 5,293	5,293	714	7,954	5,251
7,954	1,494 714	1,292	1,494	1,292 5,293	5,293	5,293	5,293	5,251	714
714	7,954 1,292	1,494	1,292 1,147	2,925	1,798	1,147	7,954 2,925	714	7,954
5,251	1,494	1,292 1,798	3,458 7,954	1,798	1,147	714 3,458	1,798	7,954	5,251
7,954	2,925	1,147	1,798	2,925 1,147	2,925 1,798	1,147	2,925	1,798	714
5,251	714	1,798	2,304	2,813	2,304	2,813	1,798	5,251	7,954
714	7,954	2,925	2,813 1,147	2,304	2,813	2,304 2,925	1,147	7,954	714
7,954	5,251	1,147 7,954	1,798	2,925	1,147	1,798	2,925 714	5,251	7,954

Mystery Picture - Multiplication

Double Digit Multiplication

Date _____

Name _____

Blue

$\begin{array}{r} 82 \\ \times 97 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ \times 89 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 34 \\ \hline \end{array}$
--	--	--

Tan

$\begin{array}{r} 29 \\ \times 62 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ \times 39 \\ \hline \end{array}$	$\begin{array}{r} 31 \\ \times 37 \\ \hline \end{array}$
--	--	--

Black

$\begin{array}{r} 83 \\ \times 18 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ \times 38 \\ \hline \end{array}$
--	--

Red

$\begin{array}{r} 48 \\ \times 48 \\ \hline \end{array}$	$\begin{array}{r} 97 \\ \times 29 \\ \hline \end{array}$
--	--

Yellow

$\begin{array}{r} 79 \\ \times 67 \\ \hline \end{array}$
--

White

$\begin{array}{r} 38 \\ \times 91 \\ \hline \end{array}$
--

2 R3	4 R3	9 R4	4 R3	5 R4	9 R4	5 R4	9 R4	4 R3	3 R2
3 R2	9 R4	6 R3	5 R4	9 R4	5 R4	4 R3	6 R3	5 R4	2 R3
2 R3	5 R4	9 R4	4 R3	5 R4	4 R3	9 R4	5 R4	9 R4	3 R2
3 R2	7 R2	8 R3	4 R1	7 R2	8 R3	7 R2	4 R1	8 R3	2 R3
2 R3	4 R1	7 R2	7 R1	5 R2	9 R1	4 R1	8 R3	7 R2	3 R2
3 R2	7 R2	4 R1	8 R3	9 R1	7 R1	8 R3	7 R2	4 R1	2 R3
2 R3	4 R1	8 R3	7 R2	7 R1	5 R2	4 R1	8 R3	7 R2	3 R2
3 R2	7 R2	4 R1	8 R3	5 R2	9 R1	7 R2	4 R1	8 R3	2 R3
2 R3	8 R3	7 R2	5 R2	9 R1	7 R1	5 R2	8 R3	7 R2	3 R2
3 R2	4 R1	8 R3	7 R2	4 R1	8 R3	7 R2	4 R1	8 R3	2 R3

Mystery Picture - Division

2 Digits ÷ 1 Digit

Date _____

Name _____

White

$7 \overline{) 29}$	$8 \overline{) 67}$	$5 \overline{) 37}$
---------------------	---------------------	---------------------

Red

$4 \overline{) 22}$	$6 \overline{) 55}$	$2 \overline{) 15}$
---------------------	---------------------	---------------------

Yellow

$5 \overline{) 13}$	$9 \overline{) 29}$
---------------------	---------------------

Black

$5 \overline{) 29}$	$9 \overline{) 85}$	$5 \overline{) 23}$
---------------------	---------------------	---------------------

Gray

$5 \overline{) 33}$

31 R7	84 R1	32 R3	99 R2	84 R1	32 R3	99 R2	84 R1	32 R3	93 R1		
32 R3	99 R2	47 R8	24 R5	47 R8	22 R1	55 R2	24 R5	47 R8	49 R1	99 R2	84 R1
84 R1	49 R1	22 R1	47 R8	24 R5	34 R3	47 R8	24 R5	55 R2	47 R8	32 R3	
99 R2	47 R8	49 R1	24 R5	47 R8	34 R3	25 R2	49 R1	49 R1	47 R8	24 R5	99 R2
32 R3	24 R5	24 R5	47 R8	49 R1	25 R2	34 R3	24 R5	47 R8	24 R5	47 R8	84 R1
84 R1	22 R1	49 R1	24 R5	47 R8	24 R5	49 R1	47 R8	55 R2	32 R3		
99 R2	24 R5	49 R1	47 R8	24 R5	49 R1	47 R8	49 R1	24 R5	99 R2		
32 R3	47 R8	55 R2	49 R1	24 R5	47 R8	24 R5	22 R1	47 R8	84 R1		
84 R1	99 R2	24 R5	47 R8	24 R5	55 R2	22 R1	47 R8	49 R1	47 R8	99 R2	32 R3
93 R1	32 R3	84 R1	99 R2	32 R3	84 R1	99 R2	32 R3	84 R1	31 R7		

Mystery Picture - Division

5 Digits ÷ 1 Digit

Date _____

Name _____

White

$7 \overline{) 173}$	$9 \overline{) 431}$	$4 \overline{) 197}$
----------------------	----------------------	----------------------

Pink

$8 \overline{) 259}$	$5 \overline{) 421}$	$3 \overline{) 299}$
----------------------	----------------------	----------------------

Yellow

$9 \overline{) 199}$	$5 \overline{) 277}$
----------------------	----------------------

Black

$8 \overline{) 202}$	$5 \overline{) 173}$
----------------------	----------------------

Blue

$4 \overline{) 373}$	$8 \overline{) 255}$
----------------------	----------------------

$\frac{4}{14}$	$\frac{2}{4}$	$\frac{3}{9}$	$\frac{4}{14}$	$\frac{2}{10}$	$\frac{14}{16}$	$\frac{2}{2}$	$\frac{4}{14}$	$\frac{2}{10}$	$\frac{3}{9}$			
$\frac{3}{9}$	$\frac{2}{10}$	$\frac{14}{16}$	$\frac{6}{9}$	$\frac{3}{9}$	$\frac{4}{14}$	$\frac{2}{10}$	$\frac{14}{16}$	$\frac{3}{9}$	$\frac{2}{4}$			
$\frac{4}{14}$	$\frac{2}{2}$	$\frac{3}{9}$	$\frac{9}{12}$	$\frac{8}{10}$	$\frac{4}{8}$	$\frac{4}{4}$	$\frac{9}{12}$	$\frac{2}{10}$	$\frac{4}{14}$			
$\frac{2}{10}$	$\frac{3}{9}$	$\frac{2}{10}$	$\frac{3}{9}$	$\frac{4}{4}$	$\frac{2}{8}$	$\frac{2}{4}$	$\frac{2}{4}$	$\frac{4}{8}$	$\frac{14}{16}$	$\frac{3}{9}$		
$\frac{14}{16}$	$\frac{4}{14}$	$\frac{4}{14}$	$\frac{4}{8}$	$\frac{2}{8}$	$\frac{4}{12}$	$\frac{2}{8}$	$\frac{6}{9}$	$\frac{10}{16}$	$\frac{4}{4}$	$\frac{4}{14}$	$\frac{10}{16}$	
$\frac{3}{9}$	$\frac{2}{10}$	$\frac{8}{10}$	$\frac{2}{8}$	$\frac{4}{12}$	$\frac{2}{8}$	$\frac{4}{12}$	$\frac{2}{8}$	$\frac{2}{2}$	$\frac{8}{10}$	$\frac{3}{9}$	$\frac{14}{16}$	
$\frac{4}{14}$	$\frac{4}{10}$	$\frac{9}{12}$	$\frac{4}{8}$	$\frac{8}{10}$	$\frac{4}{12}$	$\frac{2}{8}$	$\frac{4}{8}$	$\frac{3}{9}$	$\frac{9}{12}$	$\frac{2}{10}$	$\frac{4}{14}$	
$\frac{10}{14}$	$\frac{4}{10}$	$\frac{2}{10}$	$\frac{4}{14}$	$\frac{8}{10}$	$\frac{4}{4}$	$\frac{2}{8}$	$\frac{4}{4}$	$\frac{3}{9}$	$\frac{2}{10}$	$\frac{4}{14}$	$\frac{14}{16}$	$\frac{3}{9}$
$\frac{4}{10}$	$\frac{4}{14}$	$\frac{3}{9}$	$\frac{6}{9}$	$\frac{4}{8}$	$\frac{9}{12}$	$\frac{14}{16}$	$\frac{2}{10}$	$\frac{2}{4}$	$\frac{3}{9}$	$\frac{10}{16}$	$\frac{4}{14}$	
$\frac{3}{9}$	$\frac{14}{16}$	$\frac{4}{14}$	$\frac{2}{10}$	$\frac{3}{9}$	$\frac{2}{2}$	$\frac{4}{14}$	$\frac{14}{16}$	$\frac{2}{10}$	$\frac{3}{9}$			

Mystery Picture - Fractions

Equivalent Fractions

Date _____

Name _____

Purple Fill in the number to make the fractions equivalent.

$\frac{1}{3} = \frac{\quad}{9}$	$\frac{7}{8} = \frac{\quad}{16}$
$\frac{2}{7} = \frac{\quad}{14}$	$\frac{1}{5} = \frac{\quad}{10}$

Yellow Fill in the number to make the fractions equivalent.

$\frac{2}{3} = \frac{\quad}{9}$	$\frac{1}{1} = \frac{\quad}{2}$
$\frac{5}{8} = \frac{\quad}{16}$	$\frac{1}{2} = \frac{\quad}{4}$

Light Green Fill in the number to make the fractions equivalent.

$\frac{4}{5} = \frac{\quad}{10}$	$\frac{1}{2} = \frac{\quad}{8}$
$\frac{3}{4} = \frac{\quad}{12}$	$\frac{2}{2} = \frac{\quad}{4}$

Dark Green Fill in the number to make the fractions equivalent.

$\frac{2}{6} = \frac{\quad}{12}$
$\frac{1}{4} = \frac{\quad}{8}$

Orange Fill in the number to make the fractions equivalent.

$\frac{5}{7} = \frac{\quad}{14}$
$\frac{2}{5} = \frac{\quad}{10}$

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

Mystery Picture - Fractions

Comparing Fractions

Date _____

Name _____

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

$\frac{1}{3}$ or $\frac{1}{5}$ $\frac{2}{7}$ or $\frac{1}{5}$

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

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

$\frac{2}{8}$ or $\frac{4}{7}$

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

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

$\frac{1}{3}$ or $\frac{1}{2}$

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

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

$\frac{2}{7}$ or $\frac{1}{3}$

$\frac{3}{7}$ or $\frac{3}{5}$

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

$\frac{2}{3}$ or $\frac{1}{2}$

$\frac{2}{9}$ or $\frac{1}{4}$

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

Mystery Picture - Fractions

Lowest Terms

Date _____

Name _____

Purple Write the fractions in lowest terms.

$$\frac{9}{12} = \frac{3}{4} \quad \frac{14}{16} = \frac{7}{8} \quad \frac{4}{12} = \frac{1}{3}$$

$$\frac{4}{8} = \frac{1}{2} \quad \frac{3}{15} = \frac{1}{5} \quad \frac{10}{14} = \frac{5}{7}$$

Dark Blue Write the fractions in lowest terms.

$$\frac{2}{12} = \frac{1}{6}$$

$$\frac{8}{10} = \frac{4}{5}$$

Light Blue Write the fractions in lowest terms.

$$\frac{9}{15} = \frac{3}{5} \quad \frac{10}{15} = \frac{2}{3}$$

$$\frac{2}{16} = \frac{1}{8} \quad \frac{4}{14} = \frac{2}{7}$$

Pink Write the fractions in lowest terms.

$$\frac{4}{10} = \frac{2}{5} \quad \frac{2}{8} = \frac{1}{4}$$

$$\frac{10}{12} = \frac{5}{6} \quad \frac{2}{14} = \frac{1}{7}$$

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

Mystery Picture - Prime and Composite Numbers

Date _____

Name _____

Blue

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

Yellow

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

Pink

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

Purple

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

Answer Key

Page 3: Multi-Digit Multiplication

774	2,776	774	17,478	74,205	958	774	17,478	2,776	774
58,289	576	28,595	774	2,792	1,628	576	58,289	774	17,478
2,776	774	576	49,903	2,792	58,289	49,903	2,776	2,792	576
774	576	2,792	2,776	49,903	28,595	2,792	21,555	28,595	774
576	17,478	1,628	49,903	21,555	2,792	1,628	49,903	774	17,478
58,289	774	2,792	58,289	2,792	58,289	2,792	49,903	774	17,478
17,478	576	2,776	2,792	2,776	49,903	2,792	576	58,289	774
774	17,478	774	17,478	958	74,205	576	17,478	774	576
58,289	774	17,478	774	74,205	958	17,478	2,776	576	58,289
774	17,478	28,595	576	958	74,205	774	576	28,595	576

Mystery Picture - Multi-Digit Multiplication
Name _____ Date _____

Purple $\begin{array}{r} 258 \\ \times 3 \\ \hline 774 \end{array}$	$\begin{array}{r} 1,942 \\ \times 9 \\ \hline 17,478 \end{array}$	$\begin{array}{r} 192 \\ \times 3 \\ \hline 576 \end{array}$	Pink $\begin{array}{r} 8,327 \\ \times 7 \\ \hline 58,289 \end{array}$	Yellow $\begin{array}{r} 694 \\ \times 4 \\ \hline 2,776 \end{array}$	Red $\begin{array}{r} 7,185 \\ \times 3 \\ \hline 21,555 \end{array}$
Light Blue $\begin{array}{r} 349 \\ \times 8 \\ \hline 2,792 \end{array}$	$\begin{array}{r} 7,129 \\ \times 7 \\ \hline 49,903 \end{array}$	Gray $\begin{array}{r} 479 \\ \times 2 \\ \hline 958 \end{array}$	$\begin{array}{r} 8,245 \\ \times 9 \\ \hline 74,205 \end{array}$	Orange $\begin{array}{r} 814 \\ \times 2 \\ \hline 1,628 \end{array}$	Green $\begin{array}{r} 5,719 \\ \times 5 \\ \hline 28,595 \end{array}$

Page 4: Double Digit Multiplication

7,954	1,494	1,292	1,494	5,251	714	7,954	5,251	714	7,954	5,251
1,292	1,494	1,292	7,954	5,251	1,494	7,954	5,251	714	7,954	5,251
1,494	1,292	1,494	1,292	1,494	1,292	5,293	5,293	714	7,954	5,251
7,954	1,494	1,292	1,494	1,292	5,293	5,293	5,293	5,251	714	7,954
714	7,954	1,292	1,494	1,292	2,925	1,798	1,147	7,954	714	7,954
5,251	1,494	1,292	1,798	3,458	7,954	1,798	1,147	714	3,458	1,798
7,954	2,925	1,147	1,798	2,925	1,147	2,925	1,798	1,147	2,925	1,798
5,251	714	1,798	2,304	2,813	2,304	2,813	1,798	5,251	7,954	714
714	7,954	2,925	2,813	2,304	2,813	2,304	2,813	1,147	7,954	714
7,954	5,251	1,147	1,798	2,925	1,147	1,798	2,925	714	5,251	7,954

Mystery Picture - Double Digit Multiplication
Name _____ Date _____

Blue $\begin{array}{r} 82 \\ \times 97 \\ \hline 7,954 \end{array}$	$\begin{array}{r} 59 \\ \times 89 \\ \hline 5,251 \end{array}$	$\begin{array}{r} 21 \\ \times 34 \\ \hline 714 \end{array}$	Tan $\begin{array}{r} 29 \\ \times 62 \\ \hline 1,798 \end{array}$	$\begin{array}{r} 75 \\ \times 39 \\ \hline 2,925 \end{array}$	$\begin{array}{r} 31 \\ \times 37 \\ \hline 1,147 \end{array}$
Black $\begin{array}{r} 83 \\ \times 18 \\ \hline 1,494 \end{array}$	$\begin{array}{r} 34 \\ \times 38 \\ \hline 1,292 \end{array}$	Red $\begin{array}{r} 48 \\ \times 48 \\ \hline 2,304 \end{array}$	$\begin{array}{r} 97 \\ \times 29 \\ \hline 2,813 \end{array}$	Yellow $\begin{array}{r} 79 \\ \times 67 \\ \hline 5,293 \end{array}$	White $\begin{array}{r} 38 \\ \times 91 \\ \hline 3,458 \end{array}$

Page 5: Division 2 Digit ÷ 1 Digit

2 R3	4 R3	9 R4	4 R3	5 R4	9 R4	5 R4	9 R4	4 R3	3 R2
3 R2	9 R4	6 R3	5 R4	9 R4	5 R4	4 R3	6 R3	5 R4	2 R3
2 R3	5 R4	9 R4	4 R3	5 R4	4 R3	9 R4	5 R4	9 R4	3 R2
3 R2	7 R2	8 R3	4 R1	7 R2	8 R3	7 R2	4 R1	8 R3	2 R3
2 R3	4 R1	7 R2	7 R1	5 R2	9 R1	4 R1	8 R3	7 R2	3 R2
3 R2	7 R2	4 R1	8 R3	9 R1	7 R1	8 R3	7 R2	4 R1	2 R3
2 R3	4 R1	8 R3	7 R2	7 R1	5 R2	4 R1	8 R3	7 R2	3 R2
3 R2	7 R2	4 R1	8 R3	5 R2	9 R1	7 R2	4 R1	8 R3	2 R3
2 R3	8 R3	7 R2	5 R2	9 R1	7 R1	5 R2	8 R3	7 R2	3 R2
3 R2	4 R1	8 R3	7 R2	4 R1	8 R3	7 R2	4 R1	8 R3	2 R3

Mystery Picture - Division 2 Digits ÷ 1 Digit
Name _____ Date _____

White $\begin{array}{r} 4 \text{ R}1 \\ 7 \overline{) 29} \end{array}$	$\begin{array}{r} 8 \text{ R}3 \\ 8 \overline{) 67} \end{array}$	$\begin{array}{r} 7 \text{ R}2 \\ 5 \overline{) 37} \end{array}$	Red $\begin{array}{r} 5 \text{ R}2 \\ 4 \overline{) 22} \end{array}$	$\begin{array}{r} 9 \text{ R}1 \\ 6 \overline{) 55} \end{array}$	$\begin{array}{r} 7 \text{ R}1 \\ 2 \overline{) 15} \end{array}$
Yellow $\begin{array}{r} 2 \text{ R}3 \\ 5 \overline{) 13} \end{array}$	$\begin{array}{r} 3 \text{ R}2 \\ 9 \overline{) 29} \end{array}$	Black $\begin{array}{r} 5 \text{ R}4 \\ 5 \overline{) 29} \end{array}$	$\begin{array}{r} 9 \text{ R}4 \\ 9 \overline{) 85} \end{array}$	$\begin{array}{r} 4 \text{ R}3 \\ 5 \overline{) 23} \end{array}$	Gray $\begin{array}{r} 6 \text{ R}3 \\ 5 \overline{) 33} \end{array}$

Page 6: Division 2 Digit ÷ 1 Digit

31 R7	84 R1	32 R3	99 R2	84 R1	32 R3	99 R2	84 R1	32 R3	93 R1
32 R3	99 R2	47 R8	24 R5	47 R8	22 R1	55 R2	47 R8	49 R1	99 R2
84 R1	49 R1	22 R1	47 R8	24 R5	34 R3	25 R2	47 R8	24 R5	55 R2
99 R2	47 R8	49 R1	24 R5	47 R8	24 R5	49 R1	47 R8	24 R5	99 R2
32 R3	24 R5	24 R5	47 R8	49 R1	47 R8	25 R2	84 R3	24 R5	47 R8
84 R1	22 R1	49 R1	24 R5	47 R8	24 R5	49 R1	47 R8	55 R2	32 R3
99 R2	24 R5	49 R1	47 R8	24 R5	49 R1	47 R8	49 R1	24 R5	99 R2
32 R3	47 R8	55 R2	49 R1	24 R5	47 R8	24 R5	22 R1	47 R8	84 R1
84 R1	99 R2	24 R5	47 R8	24 R5	55 R2	22 R1	47 R8	49 R1	47 R8
93 R1	32 R3	84 R1	99 R2	32 R3	84 R1	99 R2	32 R3	84 R1	31 R7

Mystery Picture - Division 2 Digits ÷ 1 Digit
Name _____ Date _____

White $\begin{array}{r} 24 \text{ R}5 \\ 7 \overline{) 173} \end{array}$	$\begin{array}{r} 47 \text{ R}8 \\ 9 \overline{) 431} \end{array}$	$\begin{array}{r} 49 \text{ R}1 \\ 4 \overline{) 197} \end{array}$	Pink $\begin{array}{r} 32 \text{ R}3 \\ 8 \overline{) 259} \end{array}$	$\begin{array}{r} 84 \text{ R}1 \\ 5 \overline{) 421} \end{array}$	$\begin{array}{r} 99 \text{ R}2 \\ 3 \overline{) 299} \end{array}$
Yellow $\begin{array}{r} 22 \text{ R}1 \\ 9 \overline{) 199} \end{array}$	$\begin{array}{r} 55 \text{ R}2 \\ 5 \overline{) 277} \end{array}$	Black $\begin{array}{r} 25 \text{ R}2 \\ 8 \overline{) 202} \end{array}$	$\begin{array}{r} 34 \text{ R}3 \\ 5 \overline{) 173} \end{array}$	$\begin{array}{r} 93 \text{ R}1 \\ 4 \overline{) 373} \end{array}$	$\begin{array}{r} 31 \text{ R}7 \\ 8 \overline{) 255} \end{array}$

Answer Key

Page 7: Equivalent Fractions

4/14	2/4	3/9	4/14	2/10	14/16	2/2	4/14	2/10	3/9
3/9	2/10	14/16	6/9	3/9	4/14	2/10	14/16	3/9	2/4
4/14	2/2	3/9	9/12	8/10	4/8	4/4	9/12	2/10	4/14
2/10	3/9	2/10	3/9	4/4	2/2	2/2	4/8	14/16	3/9
14/16	4/14	4/14	2/8	4/12	2/8	10/16	4/4	4/14	10/16
3/9	2/10	8/10	2/8	4/12	2/8	4/12	8/10	3/9	14/16
4/14	4/10	10/14	9/12	4/8	8/10	4/12	2/8	4/8	9/12
10/14	4/10	2/10	4/14	8/10	4/4	2/8	4/4	2/10	4/14
4/10	4/14	3/9	6/9	14/16	4/8	9/12	14/16	2/10	2/4
3/9	14/16	4/14	2/10	3/9	2/2	4/14	14/16	2/10	3/9

Mystery Picture - Fractions
Equivalent Fractions

Date _____
Name _____

<p>Purple Fill in the number to make the fractions equivalent.</p> $\frac{1}{3} = \frac{3}{9}$ $\frac{7}{8} = \frac{14}{16}$ $\frac{2}{7} = \frac{4}{14}$ $\frac{1}{5} = \frac{2}{10}$	<p>Yellow Fill in the number to make the fractions equivalent.</p> $\frac{2}{3} = \frac{6}{9}$ $\frac{1}{1} = \frac{2}{2}$ $\frac{5}{8} = \frac{10}{16}$ $\frac{1}{2} = \frac{2}{4}$
<p>Light Green Fill in the number to make the fractions equivalent.</p> $\frac{4}{5} = \frac{8}{10}$ $\frac{1}{2} = \frac{4}{8}$ $\frac{3}{4} = \frac{9}{12}$ $\frac{2}{2} = \frac{4}{4}$	<p>Dark Green Fill in the number to make the fractions equivalent.</p> $\frac{2}{6} = \frac{4}{12}$ $\frac{5}{7} = \frac{10}{14}$ $\frac{1}{4} = \frac{2}{8}$ $\frac{2}{5} = \frac{4}{10}$

Page 8: Comparing Fractions

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

Mystery Picture - Fractions
Comparing Fractions

Date _____
Name _____

<p>Orange Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled orange.</p> $\frac{1}{3}$ or $\frac{1}{5}$ $\frac{2}{7}$ or $\frac{1}{5}$ $\frac{2}{3}$ or $\frac{8}{9}$ $\frac{3}{8}$ or $\frac{2}{9}$	<p>White Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled white.</p> $\frac{2}{8}$ or $\frac{4}{7}$ $\frac{2}{5}$ or $\frac{3}{8}$	<p>Yellow Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled yellow.</p> $\frac{1}{3}$ or $\frac{1}{2}$ $\frac{1}{7}$ or $\frac{1}{9}$
<p>Purple Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled purple.</p> $\frac{2}{7}$ or $\frac{5}{9}$ $\frac{3}{7}$ or $\frac{3}{5}$	<p>Pink Compare the fractions and circle the greater fraction. Color the boxes with the fraction you circled pink.</p> $\frac{2}{3}$ or $\frac{1}{2}$ $\frac{2}{9}$ or $\frac{1}{4}$	

Page 9: Reducing Fractions

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

Mystery Picture - Fractions
Lowest Terms

Date _____
Name _____

<p>Purple Write the fractions in lowest terms.</p> $\frac{9}{12} = \frac{3}{4}$ $\frac{14}{16} = \frac{7}{8}$ $\frac{4}{12} = \frac{1}{3}$ $\frac{2}{12} = \frac{1}{6}$ $\frac{4}{8} = \frac{1}{2}$ $\frac{3}{15} = \frac{1}{5}$ $\frac{10}{14} = \frac{5}{7}$ $\frac{8}{10} = \frac{4}{5}$	<p>Dark Blue Write the fractions in lowest terms.</p> $\frac{9}{12} = \frac{3}{4}$ $\frac{10}{15} = \frac{2}{3}$ $\frac{4}{10} = \frac{2}{5}$ $\frac{2}{8} = \frac{1}{4}$ $\frac{2}{16} = \frac{1}{8}$ $\frac{4}{14} = \frac{2}{7}$ $\frac{10}{12} = \frac{5}{6}$ $\frac{2}{14} = \frac{1}{7}$
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Page 10: Prime and Composite Numbers

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

Mystery Picture - Prime and Composite Numbers

Date _____
Name _____

<p>Blue 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>Yellow Prime numbers between 16 - 20 List them and then color them on the drawing above</p> <p>17, 19</p>
<p>Pink 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>Purple Composite numbers between 17 - 23 List them and then color them on the drawing above</p> <p>18, 20, 21, 22</p>