

Eureka Math™

Grade 5, Module 3

Student File_B

*Contains Sprint and Fluency, Exit Ticket,
and Assessment Materials*

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10 9 8 7 6 5 4 3 2 1

Sprint and Fluency Packet

A

Number Correct: _____

Write the Missing Factor

1.	$10 = 5 \times \underline{\hspace{1cm}}$	
2.	$10 = 2 \times \underline{\hspace{1cm}}$	
3.	$8 = 4 \times \underline{\hspace{1cm}}$	
4.	$9 = 3 \times \underline{\hspace{1cm}}$	
5.	$6 = 2 \times \underline{\hspace{1cm}}$	
6.	$6 = 3 \times \underline{\hspace{1cm}}$	
7.	$12 = 6 \times \underline{\hspace{1cm}}$	
8.	$12 = 3 \times \underline{\hspace{1cm}}$	
9.	$12 = 4 \times \underline{\hspace{1cm}}$	
10.	$12 = 2 \times 2 \times \underline{\hspace{1cm}}$	
11.	$12 = 3 \times 2 \times \underline{\hspace{1cm}}$	
12.	$20 = 5 \times 2 \times \underline{\hspace{1cm}}$	
13.	$20 = 5 \times 2 \times \underline{\hspace{1cm}}$	
14.	$16 = 8 \times \underline{\hspace{1cm}}$	
15.	$16 = 4 \times 2 \times \underline{\hspace{1cm}}$	
16.	$24 = 8 \times \underline{\hspace{1cm}}$	
17.	$24 = 4 \times 2 \times \underline{\hspace{1cm}}$	
18.	$24 = 4 \times \underline{\hspace{1cm}} \times 2$	
19.	$24 = 3 \times 2 \times \underline{\hspace{1cm}}$	
20.	$24 = 3 \times \underline{\hspace{1cm}} \times 2$	
21.	$6 \times 4 = 8 \times \underline{\hspace{1cm}}$	
22.	$6 \times 4 = 4 \times 2 \times \underline{\hspace{1cm}}$	

23.	$28 = 7 \times \underline{\hspace{1cm}}$	
24.	$28 = 2 \times 2 \times \underline{\hspace{1cm}}$	
25.	$28 = 2 \times \underline{\hspace{1cm}} \times 2$	
26.	$28 = \underline{\hspace{1cm}} \times 2 \times 2$	
27.	$36 = 3 \times 3 \times \underline{\hspace{1cm}}$	
28.	$9 \times 4 = 3 \times 3 \times \underline{\hspace{1cm}}$	
29.	$9 \times 4 = 6 \times \underline{\hspace{1cm}}$	
30.	$9 \times 4 = 3 \times 2 \times \underline{\hspace{1cm}}$	
31.	$8 \times 6 = 4 \times \underline{\hspace{1cm}} \times 2$	
32.	$9 \times 9 = 3 \times \underline{\hspace{1cm}} \times 3$	
33.	$8 \times 8 = \underline{\hspace{1cm}} \times 8$	
34.	$7 \times 7 = \underline{\hspace{1cm}} \times 7$	
35.	$8 \times 3 = \underline{\hspace{1cm}} \times 6$	
36.	$16 \times 2 = \underline{\hspace{1cm}} \times 4$	
37.	$2 \times 18 = \underline{\hspace{1cm}} \times 9$	
38.	$28 \times 2 = \underline{\hspace{1cm}} \times 8$	
39.	$24 \times 3 = \underline{\hspace{1cm}} \times 9$	
40.	$6 \times 8 = \underline{\hspace{1cm}} \times 12$	
41.	$27 \times 3 = \underline{\hspace{1cm}} \times 9$	
42.	$12 \times 6 = \underline{\hspace{1cm}} \times 8$	
43.	$54 \times 2 = \underline{\hspace{1cm}} \times 12$	
44.	$9 \times 13 = \underline{\hspace{1cm}} \times 39$	

B

Number Correct: _____

Improvement: _____

Write the Missing Factor

1.	$6 = 2 \times \underline{\hspace{1cm}}$	
2.	$6 = 3 \times \underline{\hspace{1cm}}$	
3.	$9 = 3 \times \underline{\hspace{1cm}}$	
4.	$8 = 4 \times \underline{\hspace{1cm}}$	
5.	$10 = 5 \times \underline{\hspace{1cm}}$	
6.	$10 = 2 \times \underline{\hspace{1cm}}$	
7.	$20 = 10 \times \underline{\hspace{1cm}}$	
8.	$20 = 5 \times 2 \times \underline{\hspace{1cm}}$	
9.	$12 = 6 \times \underline{\hspace{1cm}}$	
10.	$12 = 3 \times \underline{\hspace{1cm}}$	
11.	$12 = 4 \times \underline{\hspace{1cm}}$	
12.	$12 = 2 \times 2 \times \underline{\hspace{1cm}}$	
13.	$12 = 3 \times 2 \times \underline{\hspace{1cm}}$	
14.	$24 = 8 \times \underline{\hspace{1cm}}$	
15.	$24 = 4 \times 2 \times \underline{\hspace{1cm}}$	
16.	$24 = 4 \times \underline{\hspace{1cm}} \times 2$	
17.	$24 = 3 \times 2 \times \underline{\hspace{1cm}}$	
18.	$24 = 3 \times \underline{\hspace{1cm}} \times 2$	
19.	$16 = 8 \times \underline{\hspace{1cm}}$	
20.	$16 = 4 \times 2 \times \underline{\hspace{1cm}}$	
21.	$8 \times 2 = 4 \times \underline{\hspace{1cm}}$	
22.	$8 \times 2 = 2 \times 2 \times \underline{\hspace{1cm}}$	

23.	$28 = 4 \times \underline{\hspace{1cm}}$	
24.	$28 = 2 \times 2 \times \underline{\hspace{1cm}}$	
25.	$28 = 2 \times \underline{\hspace{1cm}} \times 2$	
26.	$28 = \underline{\hspace{1cm}} \times 2 \times 2$	
27.	$36 = 2 \times 2 \times \underline{\hspace{1cm}}$	
28.	$9 \times 4 = 2 \times 2 \times \underline{\hspace{1cm}}$	
29.	$9 \times 4 = 6 \times \underline{\hspace{1cm}}$	
30.	$9 \times 4 = 2 \times 3 \times \underline{\hspace{1cm}}$	
31.	$8 \times 6 = 4 \times \underline{\hspace{1cm}} \times 2$	
32.	$8 \times 8 = 4 \times \underline{\hspace{1cm}} \times 2$	
33.	$9 \times 9 = \underline{\hspace{1cm}} \times 9$	
34.	$6 \times 6 = \underline{\hspace{1cm}} \times 6$	
35.	$6 \times 4 = \underline{\hspace{1cm}} \times 8$	
36.	$16 \times 2 = \underline{\hspace{1cm}} \times 8$	
37.	$2 \times 18 = \underline{\hspace{1cm}} \times 4$	
38.	$28 \times 2 = \underline{\hspace{1cm}} \times 7$	
39.	$24 \times 3 = \underline{\hspace{1cm}} \times 8$	
40.	$8 \times 6 = \underline{\hspace{1cm}} \times 4$	
41.	$12 \times 6 = \underline{\hspace{1cm}} \times 9$	
42.	$27 \times 3 = \underline{\hspace{1cm}} \times 9$	
43.	$54 \times 2 = \underline{\hspace{1cm}} \times 9$	
44.	$8 \times 13 = \underline{\hspace{1cm}} \times 26$	

A

Number Correct: _____

Find the Missing Numerator or Denominator

1.	$\frac{1}{2} = \frac{\quad}{4}$	
2.	$\frac{1}{5} = \frac{2}{\quad}$	
3.	$\frac{2}{5} = \frac{\quad}{10}$	
4.	$\frac{3}{5} = \frac{\quad}{10}$	
5.	$\frac{4}{5} = \frac{\quad}{10}$	
6.	$\frac{1}{3} = \frac{2}{\quad}$	
7.	$\frac{2}{3} = \frac{\quad}{6}$	
8.	$\frac{1}{3} = \frac{3}{\quad}$	
9.	$\frac{2}{3} = \frac{\quad}{9}$	
10.	$\frac{1}{4} = \frac{\quad}{8}$	
11.	$\frac{3}{4} = \frac{\quad}{8}$	
12.	$\frac{1}{4} = \frac{3}{\quad}$	
13.	$\frac{3}{4} = \frac{9}{\quad}$	
14.	$\frac{2}{4} = \frac{\quad}{2}$	
15.	$\frac{2}{6} = \frac{1}{\quad}$	
16.	$\frac{2}{10} = \frac{1}{\quad}$	
17.	$\frac{4}{10} = \frac{\quad}{5}$	
18.	$\frac{8}{10} = \frac{\quad}{5}$	
19.	$\frac{3}{9} = \frac{\quad}{3}$	
20.	$\frac{6}{9} = \frac{\quad}{3}$	
21.	$\frac{3}{12} = \frac{1}{\quad}$	
22.	$\frac{9}{12} = \frac{\quad}{4}$	

23.	$\frac{1}{3} = \frac{\quad}{12}$	
24.	$\frac{2}{3} = \frac{\quad}{12}$	
25.	$\frac{8}{12} = \frac{\quad}{3}$	
26.	$\frac{12}{16} = \frac{3}{\quad}$	
27.	$\frac{3}{5} = \frac{\quad}{25}$	
28.	$\frac{4}{5} = \frac{28}{\quad}$	
29.	$\frac{18}{24} = \frac{3}{\quad}$	
30.	$\frac{24}{30} = \frac{\quad}{5}$	
31.	$\frac{5}{6} = \frac{35}{\quad}$	
32.	$\frac{56}{63} = \frac{\quad}{9}$	
33.	$\frac{64}{72} = \frac{8}{\quad}$	
34.	$\frac{5}{8} = \frac{\quad}{64}$	
35.	$\frac{5}{6} = \frac{45}{\quad}$	
36.	$\frac{45}{81} = \frac{\quad}{9}$	
37.	$\frac{6}{7} = \frac{48}{\quad}$	
38.	$\frac{36}{81} = \frac{\quad}{9}$	
39.	$\frac{8}{56} = \frac{1}{\quad}$	
40.	$\frac{35}{63} = \frac{5}{\quad}$	
41.	$\frac{1}{6} = \frac{12}{\quad}$	
42.	$\frac{3}{7} = \frac{36}{\quad}$	
43.	$\frac{48}{60} = \frac{4}{\quad}$	
44.	$\frac{72}{84} = \frac{\quad}{7}$	

B

Number Correct: _____

Improvement: _____

Find the Missing Numerator or Denominator

1.	$\frac{1}{5} = \frac{2}{\quad}$	
2.	$\frac{2}{5} = \frac{\quad}{10}$	
3.	$\frac{3}{5} = \frac{\quad}{10}$	
4.	$\frac{4}{5} = \frac{\quad}{10}$	
5.	$\frac{1}{3} = \frac{2}{\quad}$	
6.	$\frac{1}{3} = \frac{\quad}{6}$	
7.	$\frac{2}{3} = \frac{4}{\quad}$	
8.	$\frac{1}{3} = \frac{\quad}{9}$	
9.	$\frac{2}{3} = \frac{6}{\quad}$	
10.	$\frac{1}{4} = \frac{2}{\quad}$	
11.	$\frac{3}{4} = \frac{6}{\quad}$	
12.	$\frac{1}{4} = \frac{\quad}{12}$	
13.	$\frac{3}{4} = \frac{\quad}{12}$	
14.	$\frac{2}{4} = \frac{1}{\quad}$	
15.	$\frac{2}{6} = \frac{\quad}{3}$	
16.	$\frac{2}{10} = \frac{\quad}{5}$	
17.	$\frac{4}{10} = \frac{2}{\quad}$	
18.	$\frac{8}{10} = \frac{4}{\quad}$	
19.	$\frac{3}{9} = \frac{1}{\quad}$	
20.	$\frac{6}{9} = \frac{2}{\quad}$	
21.	$\frac{1}{4} = \frac{\quad}{12}$	
22.	$\frac{9}{12} = \frac{3}{\quad}$	

23.	$\frac{1}{3} = \frac{4}{\quad}$	
24.	$\frac{2}{3} = \frac{8}{\quad}$	
25.	$\frac{8}{12} = \frac{2}{\quad}$	
26.	$\frac{12}{16} = \frac{\quad}{4}$	
27.	$\frac{3}{5} = \frac{15}{\quad}$	
28.	$\frac{4}{5} = \frac{\quad}{35}$	
29.	$\frac{18}{24} = \frac{\quad}{4}$	
30.	$\frac{24}{30} = \frac{4}{\quad}$	
31.	$\frac{5}{6} = \frac{\quad}{42}$	
32.	$\frac{56}{63} = \frac{8}{\quad}$	
33.	$\frac{64}{72} = \frac{\quad}{9}$	
34.	$\frac{5}{8} = \frac{40}{\quad}$	
35.	$\frac{5}{6} = \frac{\quad}{54}$	
36.	$\frac{45}{81} = \frac{5}{\quad}$	
37.	$\frac{6}{7} = \frac{\quad}{56}$	
38.	$\frac{36}{81} = \frac{4}{\quad}$	
39.	$\frac{8}{56} = \frac{\quad}{7}$	
40.	$\frac{35}{63} = \frac{\quad}{9}$	
41.	$\frac{1}{6} = \frac{\quad}{72}$	
42.	$\frac{3}{7} = \frac{\quad}{84}$	
43.	$\frac{48}{60} = \frac{\quad}{5}$	
44.	$\frac{72}{84} = \frac{6}{\quad}$	

A

Number Correct: _____

Find the Missing Numerator or Denominator

1.	$\frac{1}{2} = \frac{\quad}{4}$	
2.	$\frac{1}{5} = \frac{2}{\quad}$	
3.	$\frac{2}{5} = \frac{\quad}{10}$	
4.	$\frac{3}{5} = \frac{\quad}{10}$	
5.	$\frac{4}{5} = \frac{\quad}{10}$	
6.	$\frac{1}{3} = \frac{2}{\quad}$	
7.	$\frac{2}{3} = \frac{\quad}{6}$	
8.	$\frac{1}{3} = \frac{3}{\quad}$	
9.	$\frac{2}{3} = \frac{\quad}{9}$	
10.	$\frac{1}{4} = \frac{\quad}{8}$	
11.	$\frac{3}{4} = \frac{\quad}{8}$	
12.	$\frac{1}{4} = \frac{3}{\quad}$	
13.	$\frac{3}{4} = \frac{9}{\quad}$	
14.	$\frac{2}{4} = \frac{\quad}{2}$	
15.	$\frac{2}{6} = \frac{1}{\quad}$	
16.	$\frac{2}{10} = \frac{1}{\quad}$	
17.	$\frac{4}{10} = \frac{\quad}{5}$	
18.	$\frac{8}{10} = \frac{\quad}{5}$	
19.	$\frac{3}{9} = \frac{\quad}{3}$	
20.	$\frac{6}{9} = \frac{\quad}{3}$	
21.	$\frac{3}{12} = \frac{1}{\quad}$	
22.	$\frac{9}{12} = \frac{\quad}{4}$	

23.	$\frac{1}{3} = \frac{\quad}{12}$	
24.	$\frac{2}{3} = \frac{\quad}{12}$	
25.	$\frac{8}{12} = \frac{\quad}{3}$	
26.	$\frac{12}{16} = \frac{3}{\quad}$	
27.	$\frac{3}{5} = \frac{\quad}{25}$	
28.	$\frac{4}{5} = \frac{28}{\quad}$	
29.	$\frac{18}{24} = \frac{3}{\quad}$	
30.	$\frac{24}{30} = \frac{\quad}{5}$	
31.	$\frac{5}{6} = \frac{35}{\quad}$	
32.	$\frac{56}{63} = \frac{\quad}{9}$	
33.	$\frac{64}{72} = \frac{8}{\quad}$	
34.	$\frac{5}{8} = \frac{\quad}{64}$	
35.	$\frac{5}{6} = \frac{45}{\quad}$	
36.	$\frac{45}{81} = \frac{\quad}{9}$	
37.	$\frac{6}{7} = \frac{48}{\quad}$	
38.	$\frac{36}{81} = \frac{\quad}{9}$	
39.	$\frac{8}{56} = \frac{1}{\quad}$	
40.	$\frac{35}{63} = \frac{5}{\quad}$	
41.	$\frac{1}{6} = \frac{12}{\quad}$	
42.	$\frac{3}{7} = \frac{36}{\quad}$	
43.	$\frac{48}{60} = \frac{4}{\quad}$	
44.	$\frac{72}{84} = \frac{\quad}{7}$	

B

Number Correct: _____

Improvement: _____

Find the Missing Numerator or Denominator

1.	$\frac{1}{5} = \frac{2}{\quad}$	
2.	$\frac{2}{5} = \frac{\quad}{10}$	
3.	$\frac{3}{5} = \frac{\quad}{10}$	
4.	$\frac{4}{5} = \frac{\quad}{10}$	
5.	$\frac{1}{3} = \frac{2}{\quad}$	
6.	$\frac{1}{3} = \frac{\quad}{6}$	
7.	$\frac{2}{3} = \frac{4}{\quad}$	
8.	$\frac{1}{3} = \frac{\quad}{9}$	
9.	$\frac{2}{3} = \frac{6}{\quad}$	
10.	$\frac{1}{4} = \frac{2}{\quad}$	
11.	$\frac{3}{4} = \frac{6}{\quad}$	
12.	$\frac{1}{4} = \frac{\quad}{12}$	
13.	$\frac{3}{4} = \frac{\quad}{12}$	
14.	$\frac{2}{4} = \frac{1}{\quad}$	
15.	$\frac{2}{6} = \frac{\quad}{3}$	
16.	$\frac{2}{10} = \frac{\quad}{5}$	
17.	$\frac{4}{10} = \frac{2}{\quad}$	
18.	$\frac{8}{10} = \frac{4}{\quad}$	
19.	$\frac{3}{9} = \frac{1}{\quad}$	
20.	$\frac{6}{9} = \frac{2}{\quad}$	
21.	$\frac{1}{4} = \frac{\quad}{12}$	
22.	$\frac{9}{12} = \frac{3}{\quad}$	

23.	$\frac{1}{3} = \frac{4}{\quad}$	
24.	$\frac{2}{3} = \frac{8}{\quad}$	
25.	$\frac{8}{12} = \frac{2}{\quad}$	
26.	$\frac{12}{16} = \frac{\quad}{4}$	
27.	$\frac{3}{5} = \frac{15}{\quad}$	
28.	$\frac{4}{5} = \frac{\quad}{35}$	
29.	$\frac{18}{24} = \frac{\quad}{4}$	
30.	$\frac{24}{30} = \frac{4}{\quad}$	
31.	$\frac{5}{6} = \frac{\quad}{42}$	
32.	$\frac{56}{63} = \frac{8}{\quad}$	
33.	$\frac{64}{72} = \frac{\quad}{9}$	
34.	$\frac{5}{8} = \frac{40}{\quad}$	
35.	$\frac{5}{6} = \frac{\quad}{54}$	
36.	$\frac{45}{81} = \frac{5}{\quad}$	
37.	$\frac{6}{7} = \frac{\quad}{56}$	
38.	$\frac{36}{81} = \frac{4}{\quad}$	
39.	$\frac{8}{56} = \frac{\quad}{7}$	
40.	$\frac{35}{63} = \frac{\quad}{9}$	
41.	$\frac{1}{6} = \frac{\quad}{72}$	
42.	$\frac{3}{7} = \frac{\quad}{84}$	
43.	$\frac{48}{60} = \frac{\quad}{5}$	
44.	$\frac{72}{84} = \frac{6}{\quad}$	

A

Number Correct: _____

Subtracting Fractions from a Whole Number

1.	$4 - \frac{1}{2} =$	
2.	$3 - \frac{1}{2} =$	
3.	$2 - \frac{1}{2} =$	
4.	$1 - \frac{1}{2} =$	
5.	$1 - \frac{1}{3} =$	
6.	$2 - \frac{1}{3} =$	
7.	$4 - \frac{1}{3} =$	
8.	$4 - \frac{2}{3} =$	
9.	$2 - \frac{2}{3} =$	
10.	$2 - \frac{1}{4} =$	
11.	$2 - \frac{3}{4} =$	
12.	$3 - \frac{3}{4} =$	
13.	$3 - \frac{1}{4} =$	
14.	$4 - \frac{3}{4} =$	
15.	$2 - \frac{1}{10} =$	
16.	$3 - \frac{9}{10} =$	
17.	$2 - \frac{7}{10} =$	
18.	$4 - \frac{3}{10} =$	
19.	$3 - \frac{1}{5} =$	
20.	$3 - \frac{2}{5} =$	
21.	$3 - \frac{4}{5} =$	
22.	$3 - \frac{3}{5} =$	

23.	$3 - \frac{1}{8} =$	
24.	$3 - \frac{3}{8} =$	
25.	$3 - \frac{5}{8} =$	
26.	$3 - \frac{7}{8} =$	
27.	$2 - \frac{7}{8} =$	
28.	$4 - \frac{1}{7} =$	
29.	$3 - \frac{6}{7} =$	
30.	$2 - \frac{3}{7} =$	
31.	$4 - \frac{4}{7} =$	
32.	$3 - \frac{5}{7} =$	
33.	$4 - \frac{3}{4} =$	
34.	$2 - \frac{5}{8} =$	
35.	$3 - \frac{3}{10} =$	
36.	$4 - \frac{2}{5} =$	
37.	$4 - \frac{3}{7} =$	
38.	$3 - \frac{7}{10} =$	
39.	$3 - \frac{5}{10} =$	
40.	$4 - \frac{2}{8} =$	
41.	$2 - \frac{9}{12} =$	
42.	$4 - \frac{2}{12} =$	
43.	$3 - \frac{2}{6} =$	
44.	$2 - \frac{8}{12} =$	

B

Number Correct: _____

Improvement: _____

Subtracting Fractions from a Whole Number

1.	$1 - \frac{1}{2} =$	
2.	$2 - \frac{1}{2} =$	
3.	$3 - \frac{1}{2} =$	
4.	$4 - \frac{1}{2} =$	
5.	$1 - \frac{1}{4} =$	
6.	$2 - \frac{1}{4} =$	
7.	$4 - \frac{1}{4} =$	
8.	$4 - \frac{3}{4} =$	
9.	$2 - \frac{3}{4} =$	
10.	$2 - \frac{1}{3} =$	
11.	$2 - \frac{2}{3} =$	
12.	$3 - \frac{2}{3} =$	
13.	$3 - \frac{1}{3} =$	
14.	$4 - \frac{2}{3} =$	
15.	$3 - \frac{1}{10} =$	
16.	$2 - \frac{9}{10} =$	
17.	$4 - \frac{7}{10} =$	
18.	$3 - \frac{3}{10} =$	
19.	$2 - \frac{1}{5} =$	
20.	$2 - \frac{2}{5} =$	
21.	$2 - \frac{4}{5} =$	
22.	$3 - \frac{3}{5} =$	

23.	$2 - \frac{1}{8} =$	
24.	$2 - \frac{3}{8} =$	
25.	$2 - \frac{5}{8} =$	
26.	$2 - \frac{7}{8} =$	
27.	$4 - \frac{7}{8} =$	
28.	$3 - \frac{1}{7} =$	
29.	$2 - \frac{6}{7} =$	
30.	$4 - \frac{3}{7} =$	
31.	$3 - \frac{4}{7} =$	
32.	$2 - \frac{5}{7} =$	
33.	$3 - \frac{3}{4} =$	
34.	$4 - \frac{5}{8} =$	
35.	$2 - \frac{3}{10} =$	
36.	$3 - \frac{2}{5} =$	
37.	$3 - \frac{3}{7} =$	
38.	$2 - \frac{7}{10} =$	
39.	$2 - \frac{5}{10} =$	
40.	$3 - \frac{6}{8} =$	
41.	$4 - \frac{3}{12} =$	
42.	$3 - \frac{10}{12} =$	
43.	$2 - \frac{4}{6} =$	
44.	$4 - \frac{4}{12} =$	

A

Number Correct: _____

Circle the Equivalent Fraction

1.	$\frac{2}{4} =$	$\frac{1}{2}$	$\frac{1}{3}$
2.	$\frac{2}{6} =$	$\frac{1}{2}$	$\frac{1}{3}$
3.	$\frac{2}{8} =$	$\frac{1}{2}$	$\frac{1}{4}$
4.	$\frac{5}{10} =$	$\frac{1}{2}$	$\frac{1}{4}$
5.	$\frac{5}{15} =$	$\frac{1}{2}$	$\frac{1}{3}$
6.	$\frac{5}{20} =$	$\frac{1}{2}$	$\frac{1}{4}$
7.	$\frac{4}{8} =$	$\frac{1}{2}$	$\frac{1}{4}$
8.	$\frac{4}{12} =$	$\frac{1}{2}$	$\frac{1}{3}$
9.	$\frac{4}{16} =$	$\frac{1}{2}$	$\frac{1}{4}$
10.	$\frac{3}{6} =$	$\frac{1}{2}$	$\frac{1}{3}$
11.	$\frac{3}{9} =$	$\frac{1}{2}$	$\frac{1}{3}$
12.	$\frac{3}{12} =$	$\frac{1}{2}$	$\frac{1}{4}$
13.	$\frac{4}{6} =$	$\frac{2}{3}$	$\frac{1}{3}$
14.	$\frac{6}{12} =$	$\frac{2}{3}$	$\frac{1}{2}$
15.	$\frac{6}{18} =$	$\frac{2}{3}$	$\frac{1}{3}$
16.	$\frac{6}{30} =$	$\frac{1}{5}$	$\frac{1}{3}$
17.	$\frac{6}{9} =$	$\frac{2}{3}$	$\frac{1}{3}$
18.	$\frac{7}{14} =$	$\frac{1}{2}$	$\frac{1}{3}$
19.	$\frac{7}{21} =$	$\frac{1}{2}$	$\frac{1}{3}$
20.	$\frac{7}{42} =$	$\frac{1}{6}$	$\frac{1}{7}$
21.	$\frac{8}{12} =$	$\frac{2}{3}$	$\frac{3}{4}$
22.	$\frac{9}{18} =$	$\frac{1}{2}$	$\frac{1}{3}$

23.	$\frac{9}{27} =$	$\frac{2}{3}$	$\frac{1}{3}$	$\frac{1}{4}$
24.	$\frac{9}{63} =$	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{8}$
25.	$\frac{8}{12} =$	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{4}{5}$
26.	$\frac{8}{16} =$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$
27.	$\frac{8}{24} =$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$
28.	$\frac{8}{64} =$	$\frac{1}{7}$	$\frac{1}{8}$	$\frac{1}{9}$
29.	$\frac{12}{18} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
30.	$\frac{12}{16} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
31.	$\frac{9}{12} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
32.	$\frac{6}{8} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
33.	$\frac{10}{12} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
34.	$\frac{15}{18} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
35.	$\frac{8}{10} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
36.	$\frac{16}{20} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
37.	$\frac{12}{15} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
38.	$\frac{18}{27} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
39.	$\frac{27}{36} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
40.	$\frac{32}{40} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
41.	$\frac{45}{54} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{5}{6}$
42.	$\frac{24}{36} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
43.	$\frac{60}{72} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
44.	$\frac{48}{60} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{5}{6}$

B

Number Correct: _____

Improvement: _____

Circle the Equivalent Fraction

1.	$\frac{5}{10} =$	$\frac{1}{2}$	$\frac{1}{3}$
2.	$\frac{5}{15} =$	$\frac{1}{2}$	$\frac{1}{3}$
3.	$\frac{5}{20} =$	$\frac{1}{2}$	$\frac{1}{4}$
4.	$\frac{2}{4} =$	$\frac{1}{2}$	$\frac{1}{3}$
5.	$\frac{2}{6} =$	$\frac{1}{2}$	$\frac{1}{3}$
6.	$\frac{2}{8} =$	$\frac{1}{2}$	$\frac{1}{4}$
7.	$\frac{3}{6} =$	$\frac{1}{2}$	$\frac{1}{3}$
8.	$\frac{3}{9} =$	$\frac{1}{2}$	$\frac{1}{3}$
9.	$\frac{3}{12} =$	$\frac{1}{4}$	$\frac{1}{3}$
10.	$\frac{4}{8} =$	$\frac{1}{2}$	$\frac{1}{3}$
11.	$\frac{4}{12} =$	$\frac{1}{2}$	$\frac{1}{3}$
12.	$\frac{4}{16} =$	$\frac{1}{4}$	$\frac{1}{3}$
13.	$\frac{4}{6} =$	$\frac{2}{3}$	$\frac{1}{2}$
14.	$\frac{7}{14} =$	$\frac{2}{3}$	$\frac{1}{2}$
15.	$\frac{7}{21} =$	$\frac{1}{5}$	$\frac{1}{3}$
16.	$\frac{7}{35} =$	$\frac{1}{5}$	$\frac{1}{3}$
17.	$\frac{6}{9} =$	$\frac{2}{3}$	$\frac{1}{3}$
18.	$\frac{6}{12} =$	$\frac{1}{2}$	$\frac{1}{3}$
19.	$\frac{6}{18} =$	$\frac{1}{6}$	$\frac{1}{3}$
20.	$\frac{6}{36} =$	$\frac{1}{6}$	$\frac{1}{3}$
21.	$\frac{8}{12} =$	$\frac{2}{3}$	$\frac{3}{4}$
22.	$\frac{8}{16} =$	$\frac{1}{2}$	$\frac{1}{3}$

23.	$\frac{8}{24} =$	$\frac{2}{3}$	$\frac{1}{3}$	$\frac{1}{4}$
24.	$\frac{8}{56} =$	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{8}$
25.	$\frac{8}{12} =$	$\frac{2}{3}$	$\frac{3}{4}$	$\frac{4}{5}$
26.	$\frac{9}{18} =$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$
27.	$\frac{9}{27} =$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$
28.	$\frac{9}{72} =$	$\frac{1}{7}$	$\frac{1}{8}$	$\frac{1}{9}$
29.	$\frac{12}{18} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
30.	$\frac{6}{8} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
31.	$\frac{9}{12} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
32.	$\frac{12}{16} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
33.	$\frac{8}{10} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
34.	$\frac{16}{20} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
35.	$\frac{12}{15} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
36.	$\frac{10}{12} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{5}{6}$
37.	$\frac{15}{18} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
38.	$\frac{16}{24} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
39.	$\frac{24}{32} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
40.	$\frac{36}{45} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
41.	$\frac{40}{48} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{5}{6}$
42.	$\frac{24}{36} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
43.	$\frac{48}{60} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{4}{5}$
44.	$\frac{60}{72} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$

A

Number Correct: _____

Add and Subtract Fractions with Like Units

1.	$\frac{1}{5} + \frac{1}{5} =$	
2.	$\frac{1}{10} + \frac{5}{10} =$	
3.	$\frac{1}{10} + \frac{7}{10} =$	
4.	$\frac{2}{5} + \frac{2}{5} =$	
5.	$\frac{5}{10} - \frac{4}{10} =$	
6.	$\frac{3}{5} - \frac{1}{5} =$	
7.	$\frac{3}{10} + \frac{3}{10} =$	
8.	$\frac{4}{5} - \frac{1}{5} =$	
9.	$\frac{1}{4} + \frac{1}{4} =$	
10.	$\frac{1}{4} + \frac{2}{4} =$	
11.	$\frac{3}{12} - \frac{2}{12} =$	
12.	$\frac{1}{4} + \frac{3}{4} =$	
13.	$\frac{1}{12} + \frac{1}{12} =$	
14.	$\frac{1}{3} + \frac{1}{3} =$	
15.	$\frac{3}{12} - \frac{2}{12} =$	
16.	$\frac{5}{12} + \frac{6}{12} =$	
17.	$\frac{7}{12} + \frac{4}{12} =$	
18.	$\frac{4}{6} - \frac{1}{6} =$	
19.	$\frac{1}{6} + \frac{2}{6} =$	
20.	$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$	
21.	$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} =$	
22.	$\frac{1}{12} + \frac{1}{12} + \frac{1}{12} =$	

23.	$\frac{1}{9} + \frac{1}{9} + \frac{1}{9} =$	
24.	$\frac{1}{9} + \frac{3}{9} + \frac{1}{9} =$	
25.	$\frac{4}{9} - \frac{1}{9} - \frac{3}{9} =$	
26.	$\frac{1}{4} + \frac{2}{4} + \frac{1}{4} =$	
27.	$\frac{1}{8} + \frac{3}{8} + \frac{2}{8} =$	
28.	$\frac{5}{12} + \frac{1}{12} + \frac{5}{12} =$	
29.	$\frac{2}{9} + \frac{3}{9} + \frac{2}{9} =$	
30.	$\frac{3}{10} - \frac{3}{10} + \frac{3}{10} =$	
31.	$\frac{3}{5} - \frac{1}{5} - \frac{1}{5} =$	
32.	$\frac{1}{6} + \frac{2}{6} =$	
33.	$\frac{3}{12} + \frac{4}{12} =$	
34.	$\frac{3}{12} + \frac{6}{12} =$	
35.	$\frac{4}{8} + \frac{2}{8} =$	
36.	$\frac{4}{12} + \frac{1}{12} =$	
37.	$\frac{1}{5} + \frac{3}{5} =$	
38.	$\frac{2}{5} + \frac{2}{5} =$	
39.	$\frac{1}{6} + \frac{2}{6} =$	
40.	$\frac{5}{12} - \frac{3}{12} =$	
41.	$\frac{7}{15} - \frac{2}{15} =$	
42.	$\frac{7}{15} - \frac{3}{15} =$	
43.	$\frac{11}{15} - \frac{2}{15} =$	
44.	$\frac{2}{15} + \frac{4}{15} =$	

B

Number Correct: _____

Improvement: _____

Add and Subtract Fractions with Like Units

1.	$\frac{1}{2} + \frac{1}{2} =$	
2.	$\frac{2}{8} + \frac{1}{8} =$	
3.	$\frac{2}{8} + \frac{3}{8} =$	
4.	$\frac{2}{12} - \frac{1}{12} =$	
5.	$\frac{5}{12} + \frac{2}{12} =$	
6.	$\frac{4}{8} + \frac{3}{8} =$	
7.	$\frac{4}{8} - \frac{3}{8} =$	
8.	$\frac{1}{8} + \frac{5}{8} =$	
9.	$\frac{3}{4} - \frac{1}{4} =$	
10.	$\frac{3}{6} - \frac{3}{6} =$	
11.	$\frac{3}{9} + \frac{3}{9} =$	
12.	$\frac{2}{3} + \frac{1}{3} =$	
13.	$\frac{6}{9} - \frac{4}{9} =$	
14.	$\frac{5}{9} - \frac{3}{9} =$	
15.	$\frac{2}{9} + \frac{2}{9} =$	
16.	$\frac{1}{12} + \frac{3}{12} =$	
17.	$\frac{5}{12} - \frac{4}{12} =$	
18.	$\frac{9}{12} - \frac{6}{12} =$	
19.	$\frac{6}{10} - \frac{4}{10} =$	
20.	$\frac{2}{8} + \frac{2}{8} + \frac{2}{8} =$	
21.	$\frac{1}{10} + \frac{1}{10} + \frac{1}{10} =$	
22.	$\frac{7}{10} - \frac{2}{10} - \frac{4}{10} =$	

23.	$\frac{1}{12} + \frac{6}{12} + \frac{2}{12} =$	
24.	$\frac{4}{12} + \frac{3}{12} + \frac{3}{12} =$	
25.	$\frac{8}{12} - \frac{4}{12} - \frac{4}{12} =$	
26.	$\frac{1}{10} + \frac{2}{10} + \frac{4}{10} =$	
27.	$\frac{1}{10} + \frac{1}{10} + \frac{6}{10} =$	
28.	$\frac{4}{6} + \frac{1}{6} + \frac{1}{6} =$	
29.	$\frac{2}{12} + \frac{3}{12} + \frac{4}{12} =$	
30.	$\frac{2}{10} + \frac{4}{10} + \frac{4}{10} =$	
31.	$\frac{3}{10} + \frac{1}{10} + \frac{2}{10} =$	
32.	$\frac{4}{6} - \frac{2}{6} =$	
33.	$\frac{3}{12} - \frac{2}{12} =$	
34.	$\frac{2}{3} + \frac{1}{3} =$	
35.	$\frac{2}{4} + \frac{1}{4} =$	
36.	$\frac{3}{12} + \frac{2}{12} =$	
37.	$\frac{1}{5} + \frac{2}{5} =$	
38.	$\frac{4}{5} - \frac{4}{5} =$	
39.	$\frac{5}{12} - \frac{1}{12} =$	
40.	$\frac{6}{8} + \frac{2}{8} =$	
41.	$\frac{2}{8} + \frac{2}{8} + \frac{2}{8} =$	
42.	$\frac{9}{10} - \frac{7}{10} - \frac{1}{10} =$	
43.	$\frac{2}{10} + \frac{5}{10} + \frac{2}{10} =$	
44.	$\frac{9}{12} - \frac{1}{12} - \frac{4}{12} =$	

A

Number Correct: _____

Add and Subtract Whole Numbers and Ones with Fraction Units

1.	$3 + 1 =$	
2.	$3 + \frac{1}{2} =$	
3.	$3\frac{1}{2} + 1 =$	
4.	$3 - 1 =$	
5.	$3\frac{1}{2} - 1 =$	
6.	$4 - 2 =$	
7.	$4\frac{1}{2} - 2 =$	
8.	$5 - 2 =$	
9.	$5\frac{1}{3} - 2 =$	
10.	$5\frac{2}{3} - 2 =$	
11.	$5\frac{2}{3} + 2 =$	
12.	$6 + 2 =$	
13.	$6 + \frac{3}{4} =$	
14.	$6\frac{3}{4} + 2 =$	
15.	$6\frac{3}{4} - 2 =$	
16.	$6\frac{3}{4} - 3 =$	
17.	$6\frac{3}{4} - 4 =$	
18.	$6\frac{3}{4} - 6 =$	
19.	$6\frac{3}{4} - \frac{3}{4} =$	
20.	$2\frac{5}{6} + 3 =$	
21.	$2\frac{1}{6} + 3 =$	
22.	$2\frac{5}{6} + 7 =$	

23.	$3\frac{5}{6} + 7 =$	
24.	$7\frac{5}{6} + 3 =$	
25.	$10\frac{5}{6} - 3 =$	
26.	$10\frac{5}{6} - 7 =$	
27.	$3 + \frac{4}{5} + 2 =$	
28.	$5 + \frac{7}{8} + 4 =$	
29.	$7 + \frac{4}{5} - 2 =$	
30.	$9 + \frac{5}{12} - 5 =$	
31.	$7 + \frac{1}{5} + \frac{1}{5} + 2 =$	
32.	$7 + \frac{2}{5} + 2 =$	
33.	$7 + \frac{2}{5} + 2 + \frac{2}{5} =$	
34.	$7\frac{2}{5} + 2\frac{2}{5} =$	
35.	$6 + \frac{1}{3} + 1 + \frac{1}{3} =$	
36.	$6\frac{1}{3} + 1\frac{1}{3} =$	
37.	$6 + \frac{2}{3} - 1 =$	
38.	$6\frac{2}{3} - 1\frac{1}{3} =$	
39.	$6\frac{2}{3} - 1\frac{2}{3} =$	
40.	$3 + \frac{4}{7} + 1 + \frac{2}{7} =$	
41.	$3\frac{4}{7} + 1\frac{2}{7} =$	
42.	$7\frac{4}{5} - 2\frac{3}{5} =$	
43.	$7\frac{4}{5} - 2\frac{2}{5} =$	
44.	$13\frac{7}{9} - 7\frac{5}{9} =$	

B

Number Correct: _____

Improvement: _____

Add and Subtract Whole Numbers and Ones with Fraction Units

1.	$2 + 1 =$	
2.	$2 + \frac{1}{2} =$	
3.	$2\frac{1}{2} + 1 =$	
4.	$2 - 1 =$	
5.	$2\frac{1}{2} - 1 =$	
6.	$5 - 2 =$	
7.	$5\frac{1}{2} - 2 =$	
8.	$6 - 2 =$	
9.	$6\frac{1}{3} - 2 =$	
10.	$6\frac{2}{3} - 2 =$	
11.	$6\frac{2}{3} + 2 =$	
12.	$7 + 2 =$	
13.	$7 + \frac{3}{4} =$	
14.	$7\frac{3}{4} + 2 =$	
15.	$7\frac{3}{4} - 2 =$	
16.	$7\frac{3}{4} - 3 =$	
17.	$7\frac{3}{4} - 4 =$	
18.	$7\frac{3}{4} - 7 =$	
19.	$7\frac{3}{4} - \frac{3}{4} =$	
20.	$3\frac{5}{6} + 2 =$	
21.	$3\frac{1}{6} + 2 =$	
22.	$3\frac{5}{6} + 6 =$	

23.	$4\frac{5}{6} + 6 =$	
24.	$6\frac{5}{6} + 4 =$	
25.	$10\frac{5}{6} - 4 =$	
26.	$10\frac{5}{6} - 6 =$	
27.	$4 + \frac{4}{5} + 2 =$	
28.	$6 + \frac{7}{8} + 3 =$	
29.	$6 + \frac{4}{5} - 2 =$	
30.	$9 + \frac{5}{12} - 4 =$	
31.	$6 + \frac{1}{5} + \frac{1}{5} + 2 =$	
32.	$6 + \frac{2}{5} + 2 =$	
33.	$6 + \frac{2}{5} + 2 + \frac{2}{5} =$	
34.	$6\frac{2}{5} + 2\frac{2}{5} =$	
35.	$5 + \frac{1}{3} + 1 + \frac{1}{3} =$	
36.	$5\frac{1}{3} + 1\frac{1}{3} =$	
37.	$7 + \frac{2}{3} - 1 =$	
38.	$7\frac{2}{3} - 1\frac{1}{3} =$	
39.	$7\frac{2}{3} - 1\frac{2}{3} =$	
40.	$5 + \frac{4}{7} + 1 + \frac{2}{7} =$	
41.	$5\frac{4}{7} + 1\frac{2}{7} =$	
42.	$6 + \frac{4}{5} - 2\frac{3}{5} =$	
43.	$6\frac{4}{5} - 2\frac{3}{5} =$	
44.	$13\frac{7}{9} - 6\frac{5}{9} =$	

A

Number Correct: _____

Subtract Fractions with Unlike Units

1.	$\frac{2}{4} - \frac{1}{4} =$	
2.	$\frac{1}{2} - \frac{1}{4} =$	
3.	$\frac{2}{6} - \frac{1}{6} =$	
4.	$\frac{1}{3} - \frac{1}{6} =$	
5.	$\frac{2}{8} - \frac{1}{8} =$	
6.	$\frac{1}{4} - \frac{1}{8} =$	
7.	$\frac{6}{8} - \frac{1}{8} =$	
8.	$\frac{3}{4} - \frac{1}{8} =$	
9.	$\frac{3}{4} - \frac{3}{8} =$	
10.	$\frac{5}{10} - \frac{2}{10} =$	
11.	$\frac{1}{2} - \frac{2}{10} =$	
12.	$\frac{1}{2} - \frac{2}{10} =$	
13.	$\frac{4}{10} - \frac{1}{10} =$	
14.	$\frac{2}{5} - \frac{1}{10} =$	
15.	$\frac{2}{5} - \frac{3}{10} =$	
16.	$\frac{6}{10} - \frac{3}{10} =$	
17.	$\frac{3}{5} - \frac{3}{10} =$	
18.	$\frac{3}{5} - \frac{5}{10} =$	
19.	$\frac{8}{10} - \frac{1}{10} =$	
20.	$\frac{4}{5} - \frac{1}{10} =$	
21.	$\frac{4}{5} - \frac{5}{10} =$	
22.	$\frac{4}{5} - \frac{5}{10} =$	

23.	$\frac{4}{5} - \frac{7}{10} =$	
24.	$\frac{2}{12} - \frac{1}{12} =$	
25.	$\frac{1}{6} - \frac{1}{12} =$	
26.	$\frac{6}{12} - \frac{1}{12} =$	
27.	$\frac{1}{2} - \frac{1}{12} =$	
28.	$\frac{1}{2} - \frac{5}{12} =$	
29.	$\frac{10}{12} - \frac{5}{12} =$	
30.	$\frac{5}{6} - \frac{5}{12} =$	
31.	$\frac{1}{3} - \frac{3}{12} =$	
32.	$\frac{2}{3} - \frac{1}{12} =$	
33.	$\frac{2}{3} - \frac{3}{12} =$	
34.	$\frac{2}{3} - \frac{7}{12} =$	
35.	$\frac{1}{4} - \frac{2}{12} =$	
36.	$\frac{1}{5} - \frac{1}{15} =$	
37.	$\frac{1}{3} - \frac{1}{15} =$	
38.	$\frac{2}{3} - \frac{3}{15} =$	
39.	$\frac{2}{5} - \frac{4}{15} =$	
40.	$\frac{3}{4} - \frac{2}{12} =$	
41.	$\frac{3}{4} - \frac{5}{16} =$	
42.	$\frac{4}{5} - \frac{5}{15} =$	
43.	$\frac{3}{4} - \frac{4}{12} =$	
44.	$\frac{3}{4} - \frac{7}{16} =$	

B

Number Correct: _____

Improvement: _____

Subtract Fractions with Unlike Units

1.	$\frac{2}{10} - \frac{1}{10} =$	
2.	$\frac{1}{5} - \frac{1}{10} =$	
3.	$\frac{2}{4} - \frac{1}{4} =$	
4.	$\frac{1}{2} - \frac{1}{4} =$	
5.	$\frac{5}{10} - \frac{2}{10} =$	
6.	$\frac{1}{2} - \frac{2}{10} =$	
7.	$\frac{1}{2} - \frac{4}{10} =$	
8.	$\frac{4}{10} - \frac{1}{10} =$	
9.	$\frac{2}{5} - \frac{1}{10} =$	
10.	$\frac{2}{5} - \frac{3}{10} =$	
11.	$\frac{6}{10} - \frac{3}{10} =$	
12.	$\frac{3}{5} - \frac{3}{10} =$	
13.	$\frac{3}{5} - \frac{5}{10} =$	
14.	$\frac{8}{10} - \frac{1}{10} =$	
15.	$\frac{4}{5} - \frac{1}{10} =$	
16.	$\frac{4}{5} - \frac{5}{10} =$	
17.	$\frac{4}{5} - \frac{5}{10} =$	
18.	$\frac{4}{5} - \frac{7}{10} =$	
19.	$\frac{2}{8} - \frac{1}{8} =$	
20.	$\frac{1}{4} - \frac{1}{8} =$	
21.	$\frac{6}{8} - \frac{1}{8} =$	
22.	$\frac{3}{4} - \frac{1}{8} =$	

23.	$\frac{3}{4} - \frac{3}{8} =$	
24.	$\frac{5}{15} - \frac{1}{15} =$	
25.	$\frac{1}{3} - \frac{1}{15} =$	
26.	$\frac{3}{15} - \frac{1}{15} =$	
27.	$\frac{1}{5} - \frac{1}{15} =$	
28.	$\frac{1}{5} - \frac{2}{15} =$	
29.	$\frac{12}{15} - \frac{4}{15} =$	
30.	$\frac{4}{5} - \frac{4}{15} =$	
31.	$\frac{1}{4} - \frac{2}{12} =$	
32.	$\frac{3}{4} - \frac{2}{12} =$	
33.	$\frac{3}{4} - \frac{4}{12} =$	
34.	$\frac{3}{4} - \frac{8}{12} =$	
35.	$\frac{1}{3} - \frac{3}{12} =$	
36.	$\frac{1}{6} - \frac{1}{12} =$	
37.	$\frac{1}{3} - \frac{3}{15} =$	
38.	$\frac{2}{3} - \frac{2}{15} =$	
39.	$\frac{2}{5} - \frac{2}{15} =$	
40.	$\frac{3}{4} - \frac{4}{12} =$	
41.	$\frac{3}{4} - \frac{7}{16} =$	
42.	$\frac{4}{5} - \frac{4}{15} =$	
43.	$\frac{3}{4} - \frac{2}{12} =$	
44.	$\frac{3}{4} - \frac{5}{16} =$	

A

Number Correct: _____

Make Larger Units

1.	$\frac{2}{4} =$	
2.	$\frac{2}{6} =$	
3.	$\frac{2}{8} =$	
4.	$\frac{5}{10} =$	
5.	$\frac{5}{15} =$	
6.	$\frac{5}{20} =$	
7.	$\frac{4}{8} =$	
8.	$\frac{4}{12} =$	
9.	$\frac{4}{16} =$	
10.	$\frac{3}{6} =$	
11.	$\frac{3}{9} =$	
12.	$\frac{3}{12} =$	
13.	$\frac{4}{6} =$	
14.	$\frac{6}{12} =$	
15.	$\frac{6}{18} =$	
16.	$\frac{6}{30} =$	
17.	$\frac{6}{9} =$	
18.	$\frac{7}{14} =$	
19.	$\frac{7}{21} =$	
20.	$\frac{7}{42} =$	
21.	$\frac{8}{12} =$	
22.	$\frac{9}{18} =$	

23.	$\frac{9}{27} =$	
24.	$\frac{9}{63} =$	
25.	$\frac{8}{12} =$	
26.	$\frac{8}{16} =$	
27.	$\frac{8}{24} =$	
28.	$\frac{8}{64} =$	
29.	$\frac{12}{18} =$	
30.	$\frac{12}{16} =$	
31.	$\frac{9}{12} =$	
32.	$\frac{6}{8} =$	
33.	$\frac{10}{12} =$	
34.	$\frac{15}{18} =$	
35.	$\frac{8}{10} =$	
36.	$\frac{16}{20} =$	
37.	$\frac{12}{15} =$	
38.	$\frac{18}{27} =$	
39.	$\frac{27}{36} =$	
40.	$\frac{32}{40} =$	
41.	$\frac{45}{54} =$	
42.	$\frac{24}{36} =$	
43.	$\frac{60}{72} =$	
44.	$\frac{48}{60} =$	

B

Number Correct: _____

Improvement: _____

Make Larger Units

1.	$\frac{5}{10} =$	
2.	$\frac{5}{15} =$	
3.	$\frac{5}{20} =$	
4.	$\frac{2}{4} =$	
5.	$\frac{2}{6} =$	
6.	$\frac{2}{8} =$	
7.	$\frac{3}{6} =$	
8.	$\frac{3}{9} =$	
9.	$\frac{3}{12} =$	
10.	$\frac{4}{8} =$	
11.	$\frac{4}{12} =$	
12.	$\frac{4}{16} =$	
13.	$\frac{4}{6} =$	
14.	$\frac{7}{14} =$	
15.	$\frac{7}{21} =$	
16.	$\frac{7}{35} =$	
17.	$\frac{6}{9} =$	
18.	$\frac{6}{12} =$	
19.	$\frac{6}{18} =$	
20.	$\frac{6}{36} =$	
21.	$\frac{8}{12} =$	
22.	$\frac{8}{16} =$	

23.	$\frac{8}{24} =$	
24.	$\frac{8}{56} =$	
25.	$\frac{8}{12} =$	
26.	$\frac{9}{18} =$	
27.	$\frac{9}{27} =$	
28.	$\frac{9}{72} =$	
29.	$\frac{12}{18} =$	
30.	$\frac{6}{8} =$	
31.	$\frac{9}{12} =$	
32.	$\frac{12}{16} =$	
33.	$\frac{8}{10} =$	
34.	$\frac{16}{20} =$	
35.	$\frac{12}{15} =$	
36.	$\frac{10}{12} =$	
37.	$\frac{15}{18} =$	
38.	$\frac{16}{24} =$	
39.	$\frac{24}{32} =$	
40.	$\frac{36}{45} =$	
41.	$\frac{40}{48} =$	
42.	$\frac{24}{36} =$	
43.	$\frac{48}{60} =$	
44.	$\frac{60}{72} =$	

A

Number Correct: _____

Circle the Smaller Fraction

1.	$\frac{1}{2}$	$\frac{1}{4}$
2.	$\frac{1}{2}$	$\frac{3}{4}$
3.	$\frac{1}{2}$	$\frac{5}{8}$
4.	$\frac{1}{2}$	$\frac{7}{8}$
5.	$\frac{1}{2}$	$\frac{1}{10}$
6.	$\frac{1}{2}$	$\frac{3}{10}$
7.	$\frac{1}{2}$	$\frac{5}{12}$
8.	$\frac{1}{2}$	$\frac{11}{12}$
9.	$\frac{1}{2}$	$\frac{7}{10}$
10.	$\frac{1}{5}$	$\frac{9}{10}$
11.	$\frac{2}{5}$	$\frac{1}{10}$
12.	$\frac{2}{5}$	$\frac{3}{10}$
13.	$\frac{3}{5}$	$\frac{3}{10}$
14.	$\frac{3}{5}$	$\frac{7}{10}$
15.	$\frac{4}{5}$	$\frac{1}{10}$
16.	$\frac{4}{5}$	$\frac{9}{10}$
17.	$\frac{1}{3}$	$\frac{1}{9}$
18.	$\frac{1}{3}$	$\frac{2}{9}$
19.	$\frac{1}{3}$	$\frac{4}{9}$
20.	$\frac{1}{3}$	$\frac{8}{9}$
21.	$\frac{1}{3}$	$\frac{1}{12}$
22.	$\frac{1}{3}$	$\frac{5}{12}$

23.	$\frac{1}{4}$	$\frac{1}{8}$
24.	$\frac{1}{4}$	$\frac{3}{8}$
25.	$\frac{1}{4}$	$\frac{7}{12}$
26.	$\frac{1}{4}$	$\frac{11}{12}$
27.	$\frac{1}{6}$	$\frac{7}{12}$
28.	$\frac{1}{6}$	$\frac{11}{12}$
29.	$\frac{2}{3}$	$\frac{1}{6}$
30.	$\frac{2}{3}$	$\frac{5}{6}$
31.	$\frac{2}{3}$	$\frac{2}{9}$
32.	$\frac{2}{3}$	$\frac{4}{9}$
33.	$\frac{2}{3}$	$\frac{1}{12}$
34.	$\frac{2}{3}$	$\frac{5}{12}$
35.	$\frac{2}{3}$	$\frac{11}{12}$
36.	$\frac{2}{3}$	$\frac{7}{12}$
37.	$\frac{3}{4}$	$\frac{1}{8}$
38.	$\frac{3}{4}$	$\frac{1}{8}$
39.	$\frac{5}{6}$	$\frac{7}{12}$
40.	$\frac{5}{6}$	$\frac{5}{12}$
41.	$\frac{6}{7}$	$\frac{38}{42}$
42.	$\frac{7}{8}$	$\frac{62}{72}$
43.	$\frac{49}{54}$	$\frac{8}{9}$
44.	$\frac{67}{72}$	$\frac{11}{12}$

B

Number Correct: _____

Improvement: _____

Circle the Smaller Fraction

1.	$\frac{1}{2}$	$\frac{1}{6}$
2.	$\frac{1}{2}$	$\frac{5}{6}$
3.	$\frac{1}{2}$	$\frac{1}{8}$
4.	$\frac{1}{2}$	$\frac{3}{8}$
5.	$\frac{1}{2}$	$\frac{7}{10}$
6.	$\frac{1}{2}$	$\frac{9}{10}$
7.	$\frac{1}{2}$	$\frac{1}{12}$
8.	$\frac{1}{2}$	$\frac{7}{12}$
9.	$\frac{1}{5}$	$\frac{1}{10}$
10.	$\frac{1}{5}$	$\frac{3}{10}$
11.	$\frac{2}{5}$	$\frac{7}{10}$
12.	$\frac{2}{5}$	$\frac{9}{10}$
13.	$\frac{3}{5}$	$\frac{1}{10}$
14.	$\frac{3}{5}$	$\frac{9}{10}$
15.	$\frac{4}{5}$	$\frac{3}{10}$
16.	$\frac{4}{5}$	$\frac{7}{10}$
17.	$\frac{1}{3}$	$\frac{1}{6}$
18.	$\frac{1}{3}$	$\frac{5}{6}$
19.	$\frac{1}{3}$	$\frac{5}{9}$
20.	$\frac{1}{3}$	$\frac{7}{9}$
21.	$\frac{1}{3}$	$\frac{7}{12}$
22.	$\frac{1}{3}$	$\frac{11}{12}$

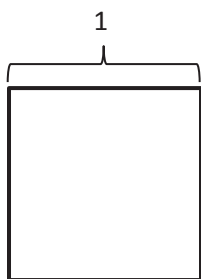
23.	$\frac{1}{4}$	$\frac{5}{8}$
24.	$\frac{1}{4}$	$\frac{7}{8}$
25.	$\frac{1}{4}$	$\frac{1}{12}$
26.	$\frac{1}{4}$	$\frac{5}{12}$
27.	$\frac{1}{6}$	$\frac{1}{12}$
28.	$\frac{1}{6}$	$\frac{5}{12}$
29.	$\frac{2}{3}$	$\frac{1}{9}$
30.	$\frac{2}{3}$	$\frac{7}{9}$
31.	$\frac{2}{3}$	$\frac{5}{9}$
32.	$\frac{2}{3}$	$\frac{8}{9}$
33.	$\frac{3}{4}$	$\frac{1}{2}$
34.	$\frac{3}{4}$	$\frac{5}{12}$
35.	$\frac{3}{4}$	$\frac{11}{12}$
36.	$\frac{3}{4}$	$\frac{7}{12}$
37.	$\frac{5}{6}$	$\frac{1}{12}$
38.	$\frac{5}{6}$	$\frac{11}{12}$
39.	$\frac{3}{4}$	$\frac{5}{8}$
40.	$\frac{3}{4}$	$\frac{3}{8}$
41.	$\frac{6}{7}$	$\frac{34}{42}$
42.	$\frac{7}{8}$	$\frac{64}{72}$
43.	$\frac{47}{54}$	$\frac{8}{9}$
44.	$\frac{65}{72}$	$\frac{11}{12}$

Exit Ticket Packet

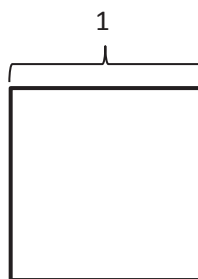
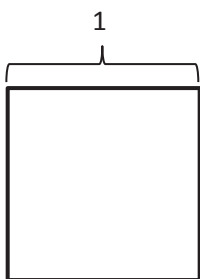
Name _____

Date _____

Estimate to mark points 0 and 1 above the number line, and $\frac{0}{6}$, $\frac{1}{6}$, $\frac{2}{6}$, $\frac{3}{6}$, $\frac{4}{6}$, $\frac{5}{6}$, and $\frac{6}{6}$ below it. Use the squares below to represent fractions equivalent to 1 sixth using both arrays and equations.



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



Name _____

Date _____

1. Show each expression on a number line. Solve.

a. $\frac{5}{5} + \frac{2}{5}$

b. $\frac{6}{3} + \frac{2}{3}$

2. Express each fraction as the sum of two or three equal fractional parts. Rewrite each as a multiplication equation. Show Part (b) on a number line.

a. $\frac{6}{9}$

b. $\frac{15}{4}$

Name _____

Date _____

Solve by drawing the rectangular fraction model.

1. $\frac{1}{2} + \frac{1}{5} =$

2. In one hour, Ed used $\frac{2}{5}$ of the time to complete his homework and $\frac{1}{4}$ of the time to check his email. How much time did he spend completing homework and checking email? Write your answer as a fraction. (Extension: Write the answer in minutes.)

Name _____

Date _____

1. Draw a model to help solve $\frac{5}{6} + \frac{1}{4}$. Write your answer as a mixed number.

2. Patrick drank $\frac{3}{4}$ liter of water Monday before jogging. He drank $\frac{4}{5}$ liter of water after his jog. How much water did Patrick drink altogether? Write your answer as a mixed number.

Name _____

Date _____

For the following problems, draw a picture using the rectangular fraction model and write the answer. Simplify your answer, if possible.

a. $\frac{1}{2} - \frac{1}{7} =$

b. $\frac{3}{5} - \frac{1}{2} =$

Name _____

Date _____

For the following problems, draw a picture using the rectangular fraction model and write the answer. Simplify your answer, if possible.

a. $1\frac{1}{5} - \frac{1}{2} =$

b. $1\frac{1}{3} - \frac{5}{6} =$

Name _____

Date _____

Solve the word problem using the RDW strategy. Show all of your work.

Mr. Pham mowed $\frac{2}{7}$ of his lawn. His son mowed $\frac{1}{4}$ of it. Who mowed the most? How much of the lawn still needs to be mowed?

Name _____

Date _____

Add or subtract.

a. $5 + 1\frac{7}{8} =$

b. $3 - 1\frac{3}{4} =$

c. $7\frac{3}{8} + 4 =$

d. $4 - 2\frac{3}{7} =$

Name _____

Date _____

Make like units, and then add.

a. $\frac{1}{6} + \frac{3}{4} =$

b. $1\frac{1}{2} + \frac{2}{5} =$

Name _____

Date _____

Add.

1. $3\frac{1}{2} + 1\frac{1}{3} =$

2. $4\frac{5}{7} + 3\frac{3}{4} =$

Name _____

Date _____

Generate equivalent fractions to get like units. Then, subtract.

a. $\frac{3}{4} - \frac{3}{10} =$

b. $3\frac{1}{2} - 1\frac{1}{3} =$

Name _____

Date _____

Subtract.

1. $5\frac{1}{2} - 1\frac{1}{3} =$

2. $8\frac{3}{4} - 5\frac{5}{6} =$

Name _____

Date _____

1. Circle the correct answer.

a. $\frac{1}{2} + \frac{5}{12}$ greater than 1 less than 1

b. $2\frac{7}{8} - 1\frac{7}{9}$ greater than 1 less than 1

c. $1\frac{1}{12} - \frac{7}{10}$ greater than $\frac{1}{2}$ less than $\frac{1}{2}$

d. $\frac{3}{7} + \frac{1}{8}$ greater than $\frac{1}{2}$ less than $\frac{1}{2}$

2. Use $>$, $<$, or $=$ to make the following statement true.

$$4\frac{4}{5} + 3\frac{2}{3} \text{ ______ } 8\frac{1}{2}$$

Name _____

Date _____

Fill in the blank to make the statement true.

1. $1\frac{3}{4} + \frac{1}{6} + \underline{\hspace{2cm}} = 7\frac{1}{2}$

2. $8\frac{4}{5} - \frac{2}{3} - \underline{\hspace{2cm}} = 3\frac{1}{10}$

Name _____

Date _____

Solve the word problem using the RDW strategy. Show all of your work.

Cheryl bought a sandwich for $5\frac{1}{2}$ dollars and a drink for \$2.60. If she paid for her meal with a \$10 bill, how much money did she have left? Write your answer as a fraction and in dollars and cents.

Name _____

Date _____

Draw the following ribbons.

- a. 1 ribbon. The piece shown below is only $\frac{2}{3}$ of the whole. Complete the drawing to show the whole ribbon.



- b. 1 ribbon. The piece shown below is $\frac{1}{4}$ of the whole. Complete the drawing to show the whole ribbon.



- c. 3 ribbons, A, B, and C. 1 third of A is the same length as B. C is half as long as B. Draw a picture of the ribbons.

Assessment Packet

Name _____

Date _____

1. Lila collected the honey from 3 of her beehives. From the first hive she collected $\frac{2}{3}$ gallon of honey. The last two hives yielded $\frac{1}{4}$ gallon each.
- a. How many gallons of honey did Lila collect in all? Draw a diagram to support your answer.

- b. After using some of the honey she collected for baking, Lila found that she only had $\frac{3}{4}$ gallon of honey left. How much honey did she use for baking? Support your answer using a diagram, numbers, and words.

- c. With the remaining $\frac{3}{4}$ gallon of honey, Lila decided to bake some loaves of bread and several batches of cookies for her school bake sale. The bread needed $\frac{1}{6}$ gallon of honey and the cookies needed $\frac{1}{4}$ gallon. How much honey was left over? Support your answer using a diagram, numbers, and words.
- d. Lila decided to make more baked goods for the bake sale. She used $\frac{1}{8}$ lb less flour to make bread than to make cookies. She used $\frac{1}{4}$ lb more flour to make cookies than to make brownies. If she used $\frac{1}{2}$ lb of flour to make the bread, how much flour did she use to make the brownies? Explain your answer using a diagram, numbers, and words.

Name _____

Date _____

1. On Sunday, Sheldon bought $4\frac{1}{2}$ kg of plant food. He used $1\frac{2}{3}$ kg on his strawberry plants and used $\frac{1}{4}$ kg for his tomato plants.
 - a. How many kilograms of plant food did Sheldon have left? Write one or more equations to show how you reached your answer.
 - b. Sheldon wants to feed his strawberry plants 2 more times and his tomato plants one more time. He will use the same amounts of plant food as before. How much plant food will he need? Does he have enough left to do so? Explain your answer using words, pictures, or numbers.

2. Sheldon harvests the strawberries and tomatoes in his garden.
- a. He picks $1\frac{2}{5}$ kg less strawberries in the morning than in the afternoon. If Sheldon picks $2\frac{1}{4}$ kg in the morning, how many kilograms of strawberries does he pick in the afternoon? Explain your answer using words, pictures, or equations.
- b. Sheldon also picks tomatoes from his garden. He picked $5\frac{3}{10}$ kg, but 1.5 kg were rotten and had to be thrown away. How many kilograms of tomatoes were not rotten? Write an equation that shows how you reached your answer.
- c. After throwing away the rotten tomatoes, did Sheldon get more kilograms of strawberries or tomatoes? How many more kilograms? Explain your answer using an equation.