A Story of Units®

Eureka Math™

Grade 5, Module 3

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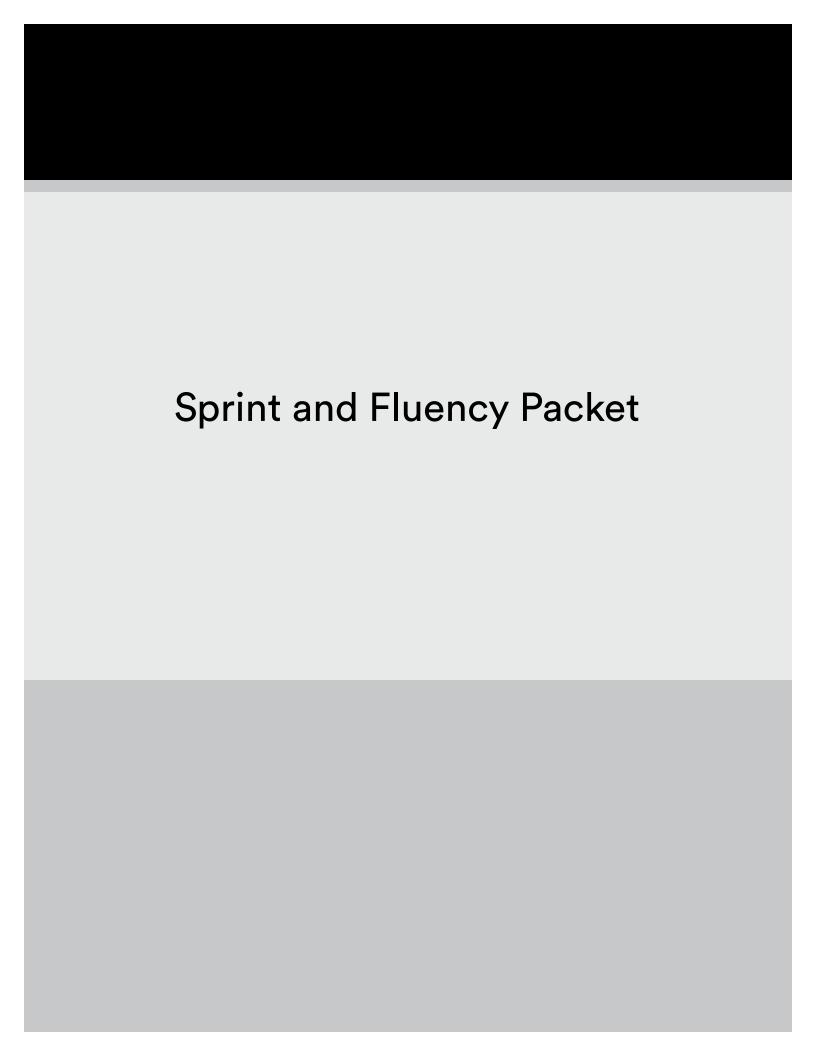
*Contains Sprint and Fluency, Exit Ticket,
and Assessment Materials*

Sprint and Fluency Packet

A

Number Correct: _____

Write the Missing Factor

1.	10 = 5 × ___		23.	28 = 7 × ___	
2.	10 = 2 × ___		24.	28 = 2 × 2 × ___	
3.	8 = 4 × ___		25.	28 = 2 × ___ × 2	
4.	9 = 3 × ___		26.	28 = ___ × 2 × 2	
5.	6 = 2 × ___		27.	36 = 3 × 3 × ___	
6.	6 = 3 × ___		28.	9 × 4 = 3 × 3 × ___	
7.	12 = 6 × ___		29.	9 × 4 = 6 × ___	
8.	12 = 3 × ___		30.	9 × 4 = 3 × 2 × ___	
9.	12 = 4 × ___		31.	8 × 6 = 4 × ___ × 2	
10.	12 = 2 × 2 × ___		32.	9 × 9 = 3 × ___ × 3	
11.	12 = 3 × 2 × ___		33.	8 × 8 = ___ × 8	
12.	20 = 5 × 2 × ___		34.	7 × 7 = ___ × 7	
13.	20 = 5 × 2 × ___		35.	8 × 3 = ___ × 6	
14.	16 = 8 × ___		36.	16 × 2 = ___ × 4	
15.	16 = 4 × 2 × ___		37.	2 × 18 = ___ × 9	
16.	24 = 8 × ___		38.	28 × 2 = ___ × 8	
17.	24 = 4 × 2 × ___		39.	24 × 3 = ___ × 9	
18.	24 = 4 × ___ × 2		40.	6 × 8 = ___ × 12	
19.	24 = 3 × 2 × ___		41.	27 × 3 = ___ × 9	
20.	24 = 3 × ___ × 2		42.	12 × 6 = ___ × 8	
21.	6 × 4 = 8 × ___		43.	54 × 2 = ___ × 12	
22.	6 × 4 = 4 × 2 × ___		44.	9 × 13 = ___ × 39	

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Lesson 1: Make equivalent fractions with the number line, the area model, and numbers.

1

B

Write the Missing Factor

1.	$6 = 2 \times$ ___		23.	$28 = 4 \times$ ___	
2.	$6 = 3 \times$ ___		24.	$28 = 2 \times 2 \times$ ___	
3.	$9 = 3 \times$ ___		25.	$28 = 2 \times$ ___ $\times 2$	
4.	$8 = 4 \times$ ___		26.	$28 =$ ___ $\times 2 \times 2$	
5.	$10 = 5 \times$ ___		27.	$36 = 2 \times 2 \times$ ___	
6.	$10 = 2 \times$ ___		28.	$9 \times 4 = 2 \times 2 \times$ ___	
7.	$20 = 10 \times$ ___		29.	$9 \times 4 = 6 \times$ ___	
8.	$20 = 5 \times 2 \times$ ___		30.	$9 \times 4 = 2 \times 3 \times$ ___	
9.	$12 = 6 \times$ ___		31.	$8 \times 6 = 4 \times$ ___ $\times 2$	
10.	$12 = 3 \times$ ___		32.	$8 \times 8 = 4 \times$ ___ $\times 2$	
11.	$12 = 4 \times$ ___		33.	$9 \times 9 =$ ___ $\times 9$	
12.	$12 = 2 \times 2 \times$ ___		34.	$6 \times 6 =$ ___ $\times 6$	
13.	$12 = 3 \times 2 \times$ ___		35.	$6 \times 4 =$ ___ $\times 8$	
14.	$24 = 8 \times$ ___		36.	$16 \times 2 =$ ___ $\times 8$	
15.	$24 = 4 \times 2 \times$ ___		37.	$2 \times 18 =$ ___ $\times 4$	
16.	$24 = 4 \times$ ___ $\times 2$		38.	$28 \times 2 =$ ___ $\times 7$	
17.	$24 = 3 \times 2 \times$ ___		39.	$24 \times 3 =$ ___ $\times 8$	
18.	$24 = 3 \times$ ___ $\times 2$		40.	$8 \times 6 =$ ___ $\times 4$	
19.	$16 = 8 \times$ ___		41.	$12 \times 6 =$ ___ $\times 9$	
20.	$16 = 4 \times 2 \times$ ___		42.	$27 \times 3 =$ ___ $\times 9$	
21.	$8 \times 2 = 4 \times$ ___		43.	$54 \times 2 =$ ___ $\times 9$	
22.	$8 \times 2 = 2 \times 2 \times$ ___		44.	$8 \times 13 =$ ___ $\times 26$	

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Lesson 1: Make equivalent fractions with the number line, the area model, and numbers.

2

A

Number Correct: _____

Find the Missing Numerator or Denominator

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

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

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Lesson 2: Make equivalent fractions with sums of fractions with like denominators.

3

B

Find the Missing Numerator or Denominator

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

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

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Lesson 2: Make equivalent fractions with sums of fractions with like denominators.

4

A

Number Correct: _____

Find the Missing Numerator or Denominator

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

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

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Lesson 3: Add fractions with unlike units using the strategy of creating equivalent fractions.

5

B

Find the Missing Numerator or Denominator

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

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

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Lesson 3: Add fractions with unlike units using the strategy of creating equivalent fractions.

6

A

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.	$2 - \frac{8}{12} =$	

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Lesson 5: Subtract fractions with unlike units using the strategy of creating equivalent fractions.

7

B

Number Correct: _____

Improvement: _____

Subtracting Fractions from a Whole Number

1.	$1 - \frac{1}{2} =$		23.	$2 - \frac{1}{8} =$	
2.	$2 - \frac{1}{2} =$		24.	$2 - \frac{3}{8} =$	
3.	$3 - \frac{1}{2} =$		25.	$2 - \frac{5}{8} =$	
4.	$4 - \frac{1}{2} =$		26.	$2 - \frac{7}{8} =$	
5.	$1 - \frac{1}{4} =$		27.	$4 - \frac{7}{8} =$	
6.	$2 - \frac{1}{4} =$		28.	$3 - \frac{1}{7} =$	
7.	$4 - \frac{1}{4} =$		29.	$2 - \frac{6}{7} =$	
8.	$4 - \frac{3}{4} =$		30.	$4 - \frac{3}{7} =$	
9.	$2 - \frac{3}{4} =$		31.	$3 - \frac{4}{7} =$	
10.	$2 - \frac{1}{3} =$		32.	$2 - \frac{5}{7} =$	
11.	$2 - \frac{2}{3} =$		33.	$3 - \frac{3}{4} =$	
12.	$3 - \frac{2}{3} =$		34.	$4 - \frac{5}{8} =$	
13.	$3 - \frac{1}{3} =$		35.	$2 - \frac{3}{10} =$	
14.	$4 - \frac{2}{3} =$		36.	$3 - \frac{2}{5} =$	
15.	$3 - \frac{1}{10} =$		37.	$3 - \frac{3}{7} =$	
16.	$2 - \frac{9}{10} =$		38.	$2 - \frac{7}{10} =$	
17.	$4 - \frac{7}{10} =$		39.	$2 - \frac{5}{10} =$	
18.	$3 - \frac{3}{10} =$		40.	$3 - \frac{6}{8} =$	
19.	$2 - \frac{1}{5} =$		41.	$4 - \frac{3}{12} =$	
20.	$2 - \frac{2}{5} =$		42.	$3 - \frac{10}{12} =$	
21.	$2 - \frac{4}{5} =$		43.	$2 - \frac{4}{6} =$	
22.	$3 - \frac{3}{5} =$		44.	$4 - \frac{4}{12} =$	

A

Circle the Equivalent Fraction

1.	$2/4 =$	$1/2$	$1/3$	23.	$9/27 =$	$2/3$	$1/3$	$1/4$	
2.	$2/6 =$	$1/2$	$1/3$	24.	$9/63 =$	$1/6$	$1/7$	$1/8$	
3.	$2/8 =$	$1/2$	$1/4$	25.	$8/12 =$	$2/3$	$3/4$	$4/5$	
4.	$5/10 =$	$1/2$	$1/4$	26.	$8/16 =$	$1/2$	$1/3$	$1/4$	
5.	$5/15 =$	$1/2$	$1/3$	27.	$8/24 =$	$1/2$	$1/3$	$1/4$	
6.	$5/20 =$	$1/2$	$1/4$	28.	$8/64 =$	$1/7$	$1/8$	$1/9$	
7.	$4/8 =$	$1/2$	$1/4$	29.	$12/18 =$	$3/4$	$5/6$	$2/3$	
8.	$4/12 =$	$1/2$	$1/3$	30.	$12/16 =$	$3/4$	$5/6$	$2/3$	
9.	$4/16 =$	$1/2$	$1/4$	31.	$9/12 =$	$3/4$	$5/6$	$2/3$	
10.	$3/6 =$	$1/2$	$1/3$	32.	$6/8 =$	$3/4$	$5/6$	$2/3$	
11.	$3/9 =$	$1/2$	$1/3$	33.	$10/12 =$	$3/4$	$5/6$	$2/3$	
12.	$3/12 =$	$1/2$	$1/4$	34.	$15/18 =$	$3/4$	$5/6$	$2/3$	
13.	$4/6 =$	$2/3$	$1/3$	35.	$8/10 =$	$3/4$	$4/5$	$2/3$	
14.	$6/12 =$	$2/3$	$1/2$	36.	$16/20 =$	$3/4$	$4/5$	$2/3$	
15.	$6/18 =$	$2/3$	$1/3$	37.	$12/15 =$	$3/4$	$4/5$	$2/3$	
16.	$6/30 =$	$1/5$	$1/3$	38.	$18/27 =$	$3/4$	$4/5$	$2/3$	
17.	$6/9 =$	$2/3$	$1/3$	39.	$27/36 =$	$3/4$	$4/5$	$2/3$	
18.	$7/14 =$	$1/2$	$1/3$	40.	$32/40 =$	$3/4$	$4/5$	$2/3$	
19.	$7/21 =$	$1/2$	$1/3$	41.	$45/54 =$	$3/4$	$4/5$	$5/6$	
20.	$7/42 =$	$1/6$	$1/7$	42.	$24/36 =$	$3/4$	$4/5$	$2/3$	
21.	$8/12 =$	$2/3$	$3/4$	43.	$60/72 =$	$3/4$	$5/6$	$2/3$	
22.	$9/18 =$	$1/2$	$1/3$	44.	$48/60 =$	$3/4$	$4/5$	$5/6$	

B

Circle the Equivalent Fraction

1.	$5/10 =$	$1/2$	$1/3$	23.	$8/24 =$	$2/3$	$1/3$	$1/4$
2.	$5/15 =$	$1/2$	$1/3$	24.	$8/56 =$	$1/6$	$1/7$	$1/8$
3.	$5/20 =$	$1/2$	$1/4$	25.	$8/12 =$	$2/3$	$3/4$	$4/5$
4.	$2/4 =$	$1/2$	$1/3$	26.	$9/18 =$	$1/2$	$1/3$	$1/4$
5.	$2/6 =$	$1/2$	$1/3$	27.	$9/27 =$	$1/2$	$1/3$	$1/4$
6.	$2/8 =$	$1/2$	$1/4$	28.	$9/72 =$	$1/7$	$1/8$	$1/9$
7.	$3/6 =$	$1/2$	$1/3$	29.	$12/18 =$	$3/4$	$5/6$	$2/3$
8.	$3/9 =$	$1/2$	$1/3$	30.	$6/8 =$	$3/4$	$5/6$	$2/3$
9.	$3/12 =$	$1/4$	$1/3$	31.	$9/12 =$	$3/4$	$5/6$	$2/3$
10.	$4/8 =$	$1/2$	$1/3$	32.	$12/16 =$	$3/4$	$5/6$	$2/3$
11.	$4/12 =$	$1/2$	$1/3$	33.	$8/10 =$	$3/4$	$4/5$	$2/3$
12.	$4/16 =$	$1/4$	$1/3$	34.	$16/20 =$	$3/4$	$4/5$	$2/3$
13.	$4/6 =$	$2/3$	$1/2$	35.	$12/15 =$	$3/4$	$4/5$	$2/3$
14.	$7/14 =$	$2/3$	$1/2$	36.	$10/12 =$	$3/4$	$4/5$	$5/6$
15.	$7/21 =$	$1/5$	$1/3$	37.	$15/18 =$	$3/4$	$5/6$	$2/3$
16.	$7/35 =$	$1/5$	$1/3$	38.	$16/24 =$	$3/4$	$4/5$	$2/3$
17.	$6/9 =$	$2/3$	$1/3$	39.	$24/32 =$	$3/4$	$4/5$	$2/3$
18.	$6/12 =$	$1/2$	$1/3$	40.	$36/45 =$	$3/4$	$4/5$	$2/3$
19.	$6/18 =$	$1/6$	$1/3$	41.	$40/48 =$	$3/4$	$4/5$	$5/6$
20.	$6/36 =$	$1/6$	$1/3$	42.	$24/36 =$	$3/4$	$4/5$	$2/3$
21.	$8/12 =$	$2/3$	$3/4$	43.	$48/60 =$	$3/4$	$5/6$	$4/5$
22.	$8/16 =$	$1/2$	$1/3$	44.	$60/72 =$	$3/4$	$5/6$	$2/3$

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.	$\frac{2}{15} + \frac{4}{15} =$	

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Lesson 9: Add fractions making like units numerically.

15

B

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.	$3 + 1 =$		23.	$3\frac{5}{6} + 7 =$	
2.	$3 + \frac{1}{2} =$		24.	$7\frac{5}{6} + 3 =$	
3.	$3\frac{1}{2} + 1 =$		25.	$10\frac{5}{6} - 3 =$	
4.	$3 - 1 =$		26.	$10\frac{5}{6} - 7 =$	
5.	$3\frac{1}{2} - 1 =$		27.	$3 + \frac{4}{5} + 2 =$	
6.	$4 - 2 =$		28.	$5 + \frac{7}{8} + 4 =$	
7.	$4\frac{1}{2} - 2 =$		29.	$7 + \frac{4}{5} - 2 =$	
8.	$5 - 2 =$		30.	$9 + \frac{5}{12} - 5 =$	
9.	$5\frac{1}{3} - 2 =$		31.	$7 + \frac{1}{5} + \frac{1}{5} + 2 =$	
10.	$5\frac{2}{3} - 2 =$		32.	$7 + \frac{2}{5} + 2 =$	
11.	$5\frac{2}{3} + 2 =$		33.	$7 + \frac{2}{5} + 2 + \frac{2}{5} =$	
12.	$6 + 2 =$		34.	$7\frac{2}{5} + 2\frac{2}{5} =$	
13.	$6 + \frac{3}{4} =$		35.	$6 + \frac{1}{3} + 1 + \frac{1}{3} =$	
14.	$6\frac{3}{4} + 2 =$		36.	$6\frac{1}{3} + 1\frac{1}{3} =$	
15.	$6\frac{3}{4} - 2 =$		37.	$6 + \frac{2}{3} - 1 =$	
16.	$6\frac{3}{4} - 3 =$		38.	$6\frac{2}{3} - 1\frac{1}{3} =$	
17.	$6\frac{3}{4} - 4 =$		39.	$6\frac{2}{3} - 1\frac{2}{3} =$	
18.	$6\frac{3}{4} - 6 =$		40.	$3 + \frac{4}{7} + 1 + \frac{2}{7} =$	
19.	$6\frac{3}{4} - \frac{3}{4} =$		41.	$3\frac{4}{7} + 1\frac{2}{7} =$	
20.	$2\frac{5}{6} + 3 =$		42.	$7\frac{4}{5} - 2\frac{3}{5} =$	
21.	$2\frac{1}{6} + 3 =$		43.	$7\frac{4}{5} - 2\frac{2}{5} =$	
22.	$2\frac{5}{6} + 7 =$		44.	$13\frac{7}{9} - 7\frac{5}{9} =$	

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Lesson 10: Add fractions with sums greater than 2.

17

B

Add and Subtract Whole Numbers and Ones with Fraction Units

1.	$2 + 1 =$		23.	$4\frac{5}{6} + 6 =$	
2.	$2 + \frac{1}{2} =$		24.	$6\frac{5}{6} + 4 =$	
3.	$2\frac{1}{2} + 1 =$		25.	$10\frac{5}{6} - 4 =$	
4.	$2 - 1 =$		26.	$10\frac{5}{6} - 6 =$	
5.	$2\frac{1}{2} - 1 =$		27.	$4 + \frac{4}{5} + 2 =$	
6.	$5 - 2 =$		28.	$6 + \frac{7}{8} + 3 =$	
7.	$5\frac{1}{2} - 2 =$		29.	$6 + \frac{4}{5} - 2 =$	
8.	$6 - 2 =$		30.	$9 + \frac{5}{12} - 4 =$	
9.	$6\frac{1}{3} - 2 =$		31.	$6 + \frac{1}{5} + \frac{1}{5} + 2 =$	
10.	$6\frac{2}{3} - 2 =$		32.	$6 + \frac{2}{5} + 2 =$	
11.	$6\frac{2}{3} + 2 =$		33.	$6 + \frac{2}{5} + 2 + \frac{2}{5} =$	
12.	$7 + 2 =$		34.	$6\frac{2}{5} + 2\frac{2}{5} =$	
13.	$7 + \frac{3}{4} =$		35.	$5 + \frac{1}{3} + 1 + \frac{1}{3} =$	
14.	$7\frac{3}{4} + 2 =$		36.	$5\frac{1}{3} + 1\frac{1}{3} =$	
15.	$7\frac{3}{4} - 2 =$		37.	$7 + \frac{2}{3} - 1 =$	
16.	$7\frac{3}{4} - 3 =$		38.	$7\frac{2}{3} - 1\frac{1}{3} =$	
17.	$7\frac{3}{4} - 4 =$		39.	$7\frac{2}{3} - 1\frac{2}{3} =$	
18.	$7\frac{3}{4} - 7 =$		40.	$5 + \frac{4}{7} + 1 + \frac{2}{7} =$	
19.	$7\frac{3}{4} - \frac{3}{4} =$		41.	$5\frac{4}{7} + 1\frac{2}{7} =$	
20.	$3\frac{5}{6} + 2 =$		42.	$6 + \frac{4}{5} - 2\frac{3}{5} =$	
21.	$3\frac{1}{6} + 2 =$		43.	$6\frac{4}{5} - 2\frac{3}{5} =$	
22.	$3\frac{5}{6} + 6 =$		44.	$13\frac{7}{9} - 6\frac{5}{9} =$	

A

Number Correct: _____

Subtract Fractions with Unlike Units

1.	$2/4 - 1/4 =$		23.	$4/5 - 7/10 =$	
2.	$1/2 - 1/4 =$		24.	$2/12 - 1/12 =$	
3.	$2/6 - 1/6 =$		25.	$1/6 - 1/12 =$	
4.	$1/3 - 1/6 =$		26.	$6/12 - 1/12 =$	
5.	$2/8 - 1/8 =$		27.	$1/2 - 1/12 =$	
6.	$1/4 - 1/8 =$		28.	$1/2 - 5/12 =$	
7.	$6/8 - 1/8 =$		29.	$10/12 - 5/12 =$	
8.	$3/4 - 1/8 =$		30.	$5/6 - 5/12 =$	
9.	$3/4 - 3/8 =$		31.	$1/3 - 3/12 =$	
10.	$5/10 - 2/10 =$		32.	$2/3 - 1/12 =$	
11.	$1/2 - 2/10 =$		33.	$2/3 - 3/12 =$	
12.	$1/2 - 2/10 =$		34.	$2/3 - 7/12 =$	
13.	$4/10 - 1/10 =$		35.	$1/4 - 2/12 =$	
14.	$2/5 - 1/10 =$		36.	$1/5 - 1/15 =$	
15.	$2/5 - 3/10 =$		37.	$1/3 - 1/15 =$	
16.	$6/10 - 3/10 =$		38.	$2/3 - 3/15 =$	
17.	$3/5 - 3/10 =$		39.	$2/5 - 4/15 =$	
18.	$3/5 - 5/10 =$		40.	$3/4 - 2/12 =$	
19.	$8/10 - 1/10 =$		41.	$3/4 - 5/16 =$	
20.	$4/5 - 1/10 =$		42.	$4/5 - 5/15 =$	
21.	$4/5 - 5/10 =$		43.	$3/4 - 4/12 =$	
22.	$4/5 - 5/10 =$		44.	$3/4 - 7/16 =$	

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Lesson 12: Subtract fractions greater than or equal to 1.

19

B

Subtract Fractions with Unlike Units

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

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

EUREKA MATH™

Lesson 12: Subtract fractions greater than or equal to 1.

20

A

Number Correct: _____

Make Larger Units

1.	$2/4 =$		23.	$9/27 =$	
2.	$2/6 =$		24.	$9/63 =$	
3.	$2/8 =$		25.	$8/12 =$	
4.	$5/10 =$		26.	$8/16 =$	
5.	$5/15 =$		27.	$8/24 =$	
6.	$5/20 =$		28.	$8/64 =$	
7.	$4/8 =$		29.	$12/18 =$	
8.	$4/12 =$		30.	$12/16 =$	
9.	$4/16 =$		31.	$9/12 =$	
10.	$3/6 =$		32.	$6/8 =$	
11.	$3/9 =$		33.	$10/12 =$	
12.	$3/12 =$		34.	$15/18 =$	
13.	$4/6 =$		35.	$8/10 =$	
14.	$6/12 =$		36.	$16/20 =$	
15.	$6/18 =$		37.	$12/15 =$	
16.	$6/30 =$		38.	$18/27 =$	
17.	$6/9 =$		39.	$27/36 =$	
18.	$7/14 =$		40.	$32/40 =$	
19.	$7/21 =$		41.	$45/54 =$	
20.	$7/42 =$		42.	$24/36 =$	
21.	$8/12 =$		43.	$60/72 =$	
22.	$9/18 =$		44.	$48/60 =$	

B

Number Correct: _____

Improvement: _____

Make Larger Units

1.	$5/10 =$		23.	$8/24 =$	
2.	$5/15 =$		24.	$8/56 =$	
3.	$5/20 =$		25.	$8/12 =$	
4.	$2/4 =$		26.	$9/18 =$	
5.	$2/6 =$		27.	$9/27 =$	
6.	$2/8 =$		28.	$9/72 =$	
7.	$3/6 =$		29.	$12/18 =$	
8.	$3/9 =$		30.	$6/8 =$	
9.	$3/12 =$		31.	$9/12 =$	
10.	$4/8 =$		32.	$12/16 =$	
11.	$4/12 =$		33.	$8/10 =$	
12.	$4/16 =$		34.	$16/20 =$	
13.	$4/6 =$		35.	$12/15 =$	
14.	$7/14 =$		36.	$10/12 =$	
15.	$7/21 =$		37.	$15/18 =$	
16.	$7/35 =$		38.	$16/24 =$	
17.	$6/9 =$		39.	$24/32 =$	
18.	$6/12 =$		40.	$36/45 =$	
19.	$6/18 =$		41.	$40/48 =$	
20.	$6/36 =$		42.	$24/36 =$	
21.	$8/12 =$		43.	$48/60 =$	
22.	$8/16 =$		44.	$60/72 =$	

A

Number Correct: _____

Circle the Smaller Fraction

1.	$\frac{1}{2}$	$\frac{1}{4}$	23.	$\frac{1}{4}$	$\frac{1}{8}$
2.	$\frac{1}{2}$	$\frac{3}{4}$	24.	$\frac{1}{4}$	$\frac{3}{8}$
3.	$\frac{1}{2}$	$\frac{5}{8}$	25.	$\frac{1}{4}$	$\frac{7}{12}$
4.	$\frac{1}{2}$	$\frac{7}{8}$	26.	$\frac{1}{4}$	$\frac{11}{12}$
5.	$\frac{1}{2}$	$\frac{1}{10}$	27.	$\frac{1}{6}$	$\frac{7}{12}$
6.	$\frac{1}{2}$	$\frac{3}{10}$	28.	$\frac{1}{6}$	$\frac{11}{12}$
7.	$\frac{1}{2}$	$\frac{5}{12}$	29.	$\frac{2}{3}$	$\frac{1}{6}$
8.	$\frac{1}{2}$	$\frac{11}{12}$	30.	$\frac{2}{3}$	$\frac{5}{6}$
9.	$\frac{1}{2}$	$\frac{7}{10}$	31.	$\frac{2}{3}$	$\frac{2}{9}$
10.	$\frac{1}{5}$	$\frac{9}{10}$	32.	$\frac{2}{3}$	$\frac{4}{9}$
11.	$\frac{2}{5}$	$\frac{1}{10}$	33.	$\frac{2}{3}$	$\frac{1}{12}$
12.	$\frac{2}{5}$	$\frac{3}{10}$	34.	$\frac{2}{3}$	$\frac{5}{12}$
13.	$\frac{3}{5}$	$\frac{3}{10}$	35.	$\frac{2}{3}$	$\frac{11}{12}$
14.	$\frac{3}{5}$	$\frac{7}{10}$	36.	$\frac{2}{3}$	$\frac{7}{12}$
15.	$\frac{4}{5}$	$\frac{1}{10}$	37.	$\frac{3}{4}$	$\frac{1}{8}$
16.	$\frac{4}{5}$	$\frac{9}{10}$	38.	$\frac{3}{4}$	$\frac{1}{8}$
17.	$\frac{1}{3}$	$\frac{1}{9}$	39.	$\frac{5}{6}$	$\frac{7}{12}$
18.	$\frac{1}{3}$	$\frac{2}{9}$	40.	$\frac{5}{6}$	$\frac{5}{12}$
19.	$\frac{1}{3}$	$\frac{4}{9}$	41.	$\frac{6}{7}$	$\frac{38}{42}$
20.	$\frac{1}{3}$	$\frac{8}{9}$	42.	$\frac{7}{8}$	$\frac{62}{72}$
21.	$\frac{1}{3}$	$\frac{1}{12}$	43.	$\frac{49}{54}$	$\frac{8}{9}$
22.	$\frac{1}{3}$	$\frac{5}{12}$	44.	$\frac{67}{72}$	$\frac{11}{12}$

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Lesson 15: Solve multi-step word problems; assess reasonableness of solutions using benchmark numbers.

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B

Circle the Smaller Fraction

1.	$\frac{1}{2}$	$\frac{1}{6}$	23.	$\frac{1}{4}$	$\frac{5}{8}$
2.	$\frac{1}{2}$	$\frac{5}{6}$	24.	$\frac{1}{4}$	$\frac{7}{8}$
3.	$\frac{1}{2}$	$\frac{1}{8}$	25.	$\frac{1}{4}$	$\frac{1}{12}$
4.	$\frac{1}{2}$	$\frac{3}{8}$	26.	$\frac{1}{4}$	$\frac{5}{12}$
5.	$\frac{1}{2}$	$\frac{7}{10}$	27.	$\frac{1}{6}$	$\frac{1}{12}$
6.	$\frac{1}{2}$	$\frac{9}{10}$	28.	$\frac{1}{6}$	$\frac{5}{12}$
7.	$\frac{1}{2}$	$\frac{1}{12}$	29.	$\frac{2}{3}$	$\frac{1}{9}$
8.	$\frac{1}{2}$	$\frac{7}{12}$	30.	$\frac{2}{3}$	$\frac{7}{9}$
9.	$\frac{1}{5}$	$\frac{1}{10}$	31.	$\frac{2}{3}$	$\frac{5}{9}$
10.	$\frac{1}{5}$	$\frac{3}{10}$	32.	$\frac{2}{3}$	$\frac{8}{9}$
11.	$\frac{2}{5}$	$\frac{7}{10}$	33.	$\frac{3}{4}$	$\frac{1}{2}$
12.	$\frac{2}{5}$	$\frac{9}{10}$	34.	$\frac{3}{4}$	$\frac{5}{12}$
13.	$\frac{3}{5}$	$\frac{1}{10}$	35.	$\frac{3}{4}$	$\frac{11}{12}$
14.	$\frac{3}{5}$	$\frac{9}{10}$	36.	$\frac{3}{4}$	$\frac{7}{12}$
15.	$\frac{4}{5}$	$\frac{3}{10}$	37.	$\frac{5}{6}$	$\frac{1}{12}$
16.	$\frac{4}{5}$	$\frac{7}{10}$	38.	$\frac{5}{6}$	$\frac{11}{12}$
17.	$\frac{1}{3}$	$\frac{1}{6}$	39.	$\frac{3}{4}$	$\frac{5}{8}$
18.	$\frac{1}{3}$	$\frac{5}{6}$	40.	$\frac{3}{4}$	$\frac{3}{8}$
19.	$\frac{1}{3}$	$\frac{5}{9}$	41.	$\frac{6}{7}$	$\frac{34}{42}$
20.	$\frac{1}{3}$	$\frac{7}{9}$	42.	$\frac{7}{8}$	$\frac{64}{72}$
21.	$\frac{1}{3}$	$\frac{7}{12}$	43.	$\frac{47}{54}$	$\frac{8}{9}$
22.	$\frac{1}{3}$	$\frac{11}{12}$	44.	$\frac{65}{72}$	$\frac{11}{12}$

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Lesson 15: Solve multi-step word problems; assess reasonableness of solutions using benchmark numbers.

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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.

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

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Lesson 1: Make equivalent fractions with the number line, the area model, and numbers.

1

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. $\frac{15}{4}$

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Lesson 2:   Make equivalent fractions with sums of fractions with like denominators.

2

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.)

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Lesson 3:   Add fractions with unlike units using the strategy of creating
equivalent fractions.

3

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

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Lesson 5: Subtract fractions with unlike units using the strategy of creating equivalent fractions.

5

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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?

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Name _____   Date _____

Add or subtract.

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

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

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

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

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Lesson 8:   Add fractions to and subtract fractions from whole numbers using equivalence and the number line as strategies.

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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.

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

Name _____   Date _____

Fill in the blank to make the statement true.

1. $1\frac{3}{4} + \frac{1}{6} + $ _____ $= 7\frac{1}{2}$

2. $8\frac{4}{5} - \frac{2}{3} - $ _____ $= 3\frac{1}{10}$

Name _____   Date _____

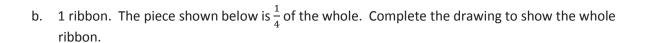Solve the word problem using the RDW strategy. Show all of your work.

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.

Lesson 15:   Solve multi-step word problems; assess reasonableness of solutions using benchmark numbers.
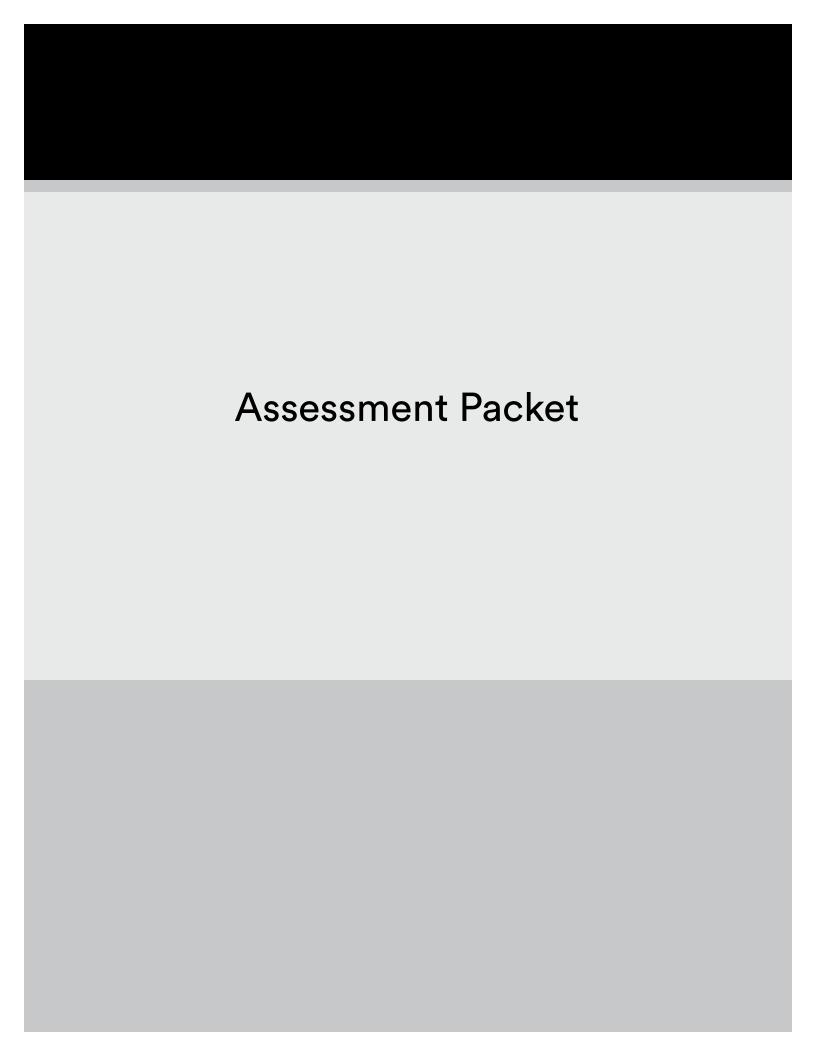
15

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.