

# A Story of Units<sup>®</sup>

## Eureka Math<sup>™</sup>

### Grade 4, Module 5

#### 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: \_\_\_\_\_

## Multiply Whole Numbers Times Fractions

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

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

## B

Number Correct: \_\_\_\_\_

Improvement: \_\_\_\_\_

## Multiply Whole Numbers Times Fractions

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

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

## A

Number Correct: \_\_\_\_\_

## Subtract Fractions

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

23.	$\frac{4}{3} - \frac{2}{3} =$	
24.	$1\frac{1}{3} - \frac{2}{3} =$	
25.	$1\frac{2}{3} - \frac{1}{3} =$	
26.	$7 - 4 =$	
27.	$\frac{7}{5} - \frac{4}{5} =$	
28.	$1\frac{2}{5} - \frac{4}{5} =$	
29.	$1\frac{4}{5} - \frac{2}{5} =$	
30.	$5 - 3 =$	
31.	$\frac{5}{4} - \frac{3}{4} =$	
32.	$1\frac{1}{4} - \frac{3}{4} =$	
33.	$1\frac{3}{4} - \frac{1}{4} =$	
34.	$1 - \frac{3}{8} =$	
35.	$1 - \frac{7}{8} =$	
36.	$1\frac{7}{8} - \frac{3}{8} =$	
37.	$1\frac{3}{8} - \frac{7}{8} =$	
38.	$1 - \frac{1}{6} =$	
39.	$1 - \frac{5}{6} =$	
40.	$1\frac{5}{6} - \frac{1}{6} =$	
41.	$1\frac{1}{6} - \frac{5}{6} =$	
42.	$1 - \frac{5}{12} =$	
43.	$1\frac{1}{12} - \frac{7}{12} =$	
44.	$1\frac{4}{15} - \frac{13}{15} =$	

## B

Number Correct: \_\_\_\_\_

Improvement: \_\_\_\_\_

## Subtract Fractions

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

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

## A

Number Correct: \_\_\_\_\_

## Add Fractions

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

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

## B

Number Correct: \_\_\_\_\_

Improvement: \_\_\_\_\_

## Add Fractions

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

23.	$\frac{3}{8} + \frac{3}{8} + \frac{3}{8} =$	$1\frac{3}{8}$
24.	$1 + 1 + 1 =$	
25.	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} =$	halves
26.	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} =$	$1\frac{1}{2}$
27.	$2 + 2 + 2 =$	
28.	$\frac{2}{5} + \frac{2}{5} + \frac{2}{5} =$	fifths
29.	$\frac{2}{5} + \frac{2}{5} + \frac{2}{5} =$	$1\frac{2}{5}$
30.	$\frac{3}{5} + \frac{3}{5} + \frac{3}{5} =$	$1\frac{3}{5}$
31.	$6 + 6 + 6 =$	
32.	$\frac{6}{10} + \frac{6}{10} + \frac{6}{10} =$	tenths
33.	$\frac{6}{10} + \frac{6}{10} + \frac{6}{10} =$	$1\frac{6}{10}$
34.	$\frac{5}{10} + \frac{5}{10} + \frac{5}{10} =$	$1\frac{5}{10}$
35.	$2 + 2 + 2 =$	
36.	$\frac{2}{6} + \frac{2}{6} + \frac{2}{6} =$	sixths
37.	$\frac{2}{6} + \frac{2}{6} + \frac{2}{6} =$	
38.	$\frac{3}{6} + \frac{3}{6} + \frac{3}{6} =$	$1\frac{3}{6}$
39.	$\frac{5}{12} + \frac{3}{12} + \frac{3}{12} =$	
40.	$\frac{5}{12} + \frac{5}{12} + \frac{2}{12} =$	
41.	$\frac{6}{12} + \frac{5}{12} + \frac{6}{12} =$	$1\frac{6}{12}$
42.	$\frac{8}{12} + \frac{10}{12} + \frac{5}{12} =$	$1\frac{8}{12}$
43.	$\frac{7}{15} + \frac{7}{15} + \frac{8}{15} =$	$1\frac{7}{15}$
44.	$\frac{13}{15} + \frac{9}{15} + \frac{7}{15} =$	$1\frac{13}{15}$



## A

Number Correct: \_\_\_\_\_

## Change Fractions to Mixed Numbers

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

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

## B

Number Correct: \_\_\_\_\_

Improvement: \_\_\_\_\_

## Change Fractions to Mixed Numbers

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

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

## A

Number Correct: \_\_\_\_\_

## Change Fractions to Mixed Numbers

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

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

## B

Number Correct: \_\_\_\_\_

Improvement: \_\_\_\_\_

## Change Fractions to Mixed Numbers

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

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

## A

Number Correct: \_\_\_\_\_

## Change Mixed Numbers to Fractions

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

23.	$1\frac{5}{6} = \frac{\quad}{6}$	
24.	$2 + \frac{1}{2} = 2\frac{\quad}{2}$	
25.	$\frac{4}{2} + \frac{1}{2} = \frac{\quad}{2}$	
26.	$2 + \frac{1}{2} = \frac{\quad}{2}$	
27.	$2\frac{1}{2} = \frac{\quad}{2}$	
28.	$2 + \frac{1}{4} = 2\frac{\quad}{4}$	
29.	$\frac{8}{4} + \frac{1}{4} = \frac{\quad}{4}$	
30.	$2 + \frac{1}{4} = \frac{\quad}{4}$	
31.	$2\frac{1}{4} = \frac{\quad}{4}$	
32.	$\frac{9}{3} + \frac{2}{3} = \frac{\quad}{3}$	
33.	$3 + \frac{2}{3} = \frac{\quad}{3}$	
34.	$3\frac{2}{3} = \frac{\quad}{3}$	
35.	$\frac{16}{4} + \frac{3}{4} = \frac{\quad}{4}$	
36.	$4 + \frac{3}{4} = \frac{\quad}{4}$	
37.	$4\frac{3}{4} = \frac{\quad}{4}$	
38.	$3 + \frac{2}{5} = \frac{\quad}{5}$	
39.	$4 + \frac{1}{2} = \frac{\quad}{2}$	
40.	$3 + \frac{3}{4} = \frac{\quad}{4}$	
41.	$3 + \frac{1}{6} = \frac{\quad}{6}$	
42.	$3 + \frac{5}{8} = \frac{\quad}{8}$	
43.	$3\frac{4}{5} = \frac{\quad}{5}$	
44.	$4\frac{7}{8} = \frac{\quad}{8}$	

## B

Number Correct: \_\_\_\_\_

Improvement: \_\_\_\_\_

Change Mixed Numbers to Fractions

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

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

## A

Number Correct: \_\_\_\_\_

## Change Mixed Numbers to Fractions

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

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

## B

Number Correct: \_\_\_\_\_

Improvement: \_\_\_\_\_

Change Mixed Numbers to Fractions

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

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



## A

Number Correct: \_\_\_\_\_

## Multiply Whole Numbers Times Fractions

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

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

## B

## Multiply Whole Numbers Times Fractions

Number Correct: \_\_\_\_\_

Improvement: \_\_\_\_\_

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

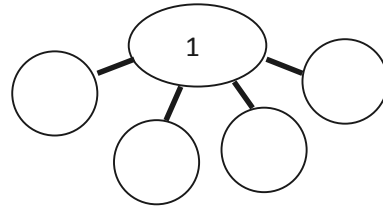
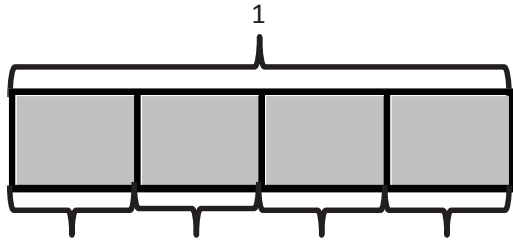
23.	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} =$	
24.	$3 \times \frac{1}{2} =$	
25.	$\frac{5}{6} =$	___ $\times \frac{1}{6}$
26.	$\frac{5}{6} =$	$5 \times$ —
27.	$\frac{5}{8} =$	$5 \times$ —
28.	$\frac{5}{8} =$	___ $\times \frac{1}{8}$
29.	$\frac{7}{8} =$	$7 \times$ —
30.	$\frac{7}{10} =$	$7 \times$ —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

# Exit Ticket Packet

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Complete the number bond, and write the number sentence to match the tape diagram.



2. Draw and label tape diagrams to model each number sentence.

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

b.  $\frac{5}{6} = \frac{2}{6} + \frac{2}{6} + \frac{1}{6}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Step 1: Draw and shade a tape diagram of the given fraction.

Step 2: Record the decomposition of the fraction in three different ways using number sentences.

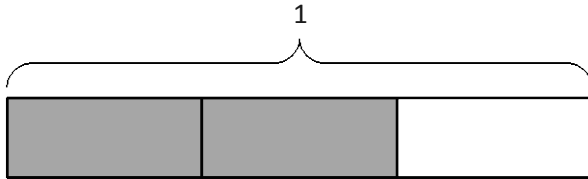
$$\frac{4}{7}$$

Name \_\_\_\_\_

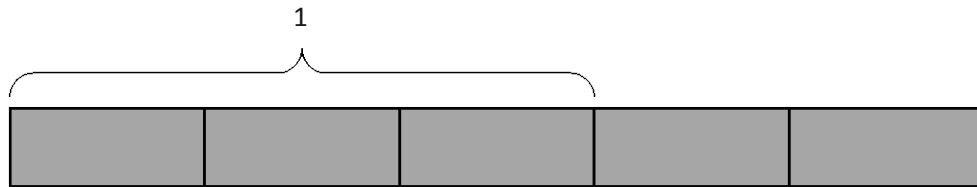
Date \_\_\_\_\_

1. Decompose each fraction modeled by a tape diagram as a sum of unit fractions. Write the equivalent multiplication sentence.

a.



b.



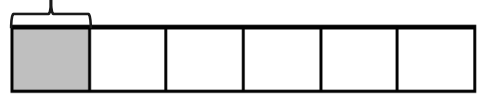
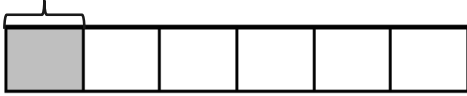
2. Draw a tape diagram, and record the given fraction's decomposition into unit fractions as a multiplication sentence.

$$\frac{6}{9}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

1. The total length of the tape diagram represents 1. Decompose the shaded unit fraction as the sum of smaller unit fractions in at least two different ways.



2. Draw a tape diagram to prove the following statement.

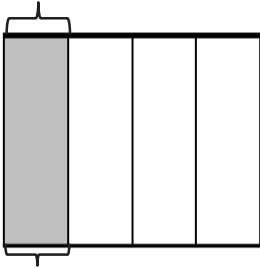
$$\frac{2}{3} = \frac{4}{6}$$

Name \_\_\_\_\_

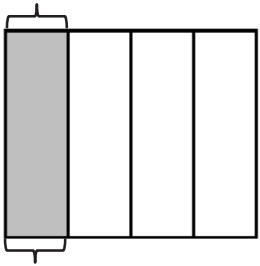
Date \_\_\_\_\_

1. Draw horizontal lines to decompose each rectangle into the number of rows as indicated. Use the model to give the shaded area as both a sum of unit fractions and as a multiplication sentence.

- a. 2 rows



- b. 3 rows



2. Draw an area model to show the decomposition represented by the number sentence below. Represent the decomposition as a sum of unit fractions and as a multiplication sentence.

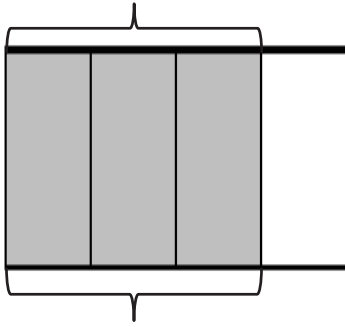
$$\frac{3}{5} = \frac{6}{10}$$



Name \_\_\_\_\_

Date \_\_\_\_\_

1. The rectangle below represents 1. Draw horizontal lines to decompose the rectangle into eighths. Use the model to give the shaded area as a sum and as a product of unit fractions. Use parentheses to show the relationship between the number sentences.



2. Draw an area model to show the decomposition represented by the number sentence below.

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

Name \_\_\_\_\_

Date \_\_\_\_\_

Draw two different area models to represent  $\frac{1}{4}$  by shading.

Decompose the shaded fraction into (a) eighths and (b) twelfths.

Use multiplication to show how each fraction is equivalent to  $\frac{1}{4}$ .

a.

b.

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Use multiplication to create an equivalent fraction for the fraction below.

$$\frac{2}{5}$$

2. Determine if the following is a true number sentence. If needed, correct the statement by changing the right-hand side of the number sentence.

$$\frac{3}{4} = \frac{9}{8}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

- a. In the first area model, show 2 sixths. In the second area model, show 4 twelfths. Show how both fractions can be composed, or renamed, as the same unit fraction.



- b. Express the equivalent fractions in a number sentence using division.

Name \_\_\_\_\_

Date \_\_\_\_\_

Draw an area model to show why the fractions are equivalent. Show the equivalence in a number sentence using division.

$$\frac{4}{10} = \frac{2}{5}$$



Name \_\_\_\_\_

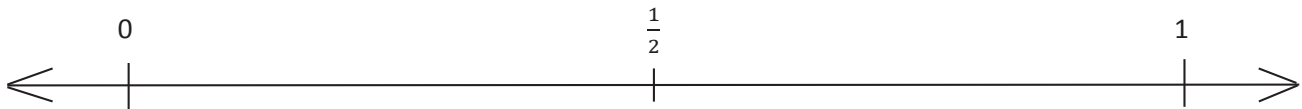
Date \_\_\_\_\_

1. Plot the following points on the number line without measuring.

a.  $\frac{8}{10}$

b.  $\frac{3}{5}$

c.  $\frac{1}{4}$

2. Use the number line in Problem 1 to compare the fractions by writing  $>$ ,  $<$ , or  $=$  on the lines.

a.  $\frac{1}{4}$  \_\_\_\_\_  $\frac{1}{2}$

b.  $\frac{8}{10}$  \_\_\_\_\_  $\frac{3}{5}$

c.  $\frac{1}{2}$  \_\_\_\_\_  $\frac{3}{5}$

d.  $\frac{1}{4}$  \_\_\_\_\_  $\frac{8}{10}$

Name \_\_\_\_\_

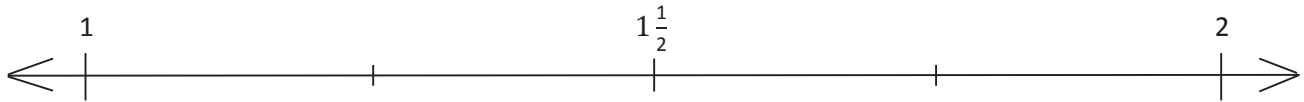
Date \_\_\_\_\_

1. Place the following fractions on the number line given.

a.  $\frac{5}{4}$

b.  $\frac{10}{7}$

c.  $\frac{16}{9}$

2. Compare the fractions using  $>$ ,  $<$ , or  $=$ .

a.  $\frac{5}{4}$  \_\_\_\_\_  $\frac{10}{7}$

b.  $\frac{5}{4}$  \_\_\_\_\_  $\frac{16}{9}$

c.  $\frac{16}{9}$  \_\_\_\_\_  $\frac{10}{7}$



Name \_\_\_\_\_

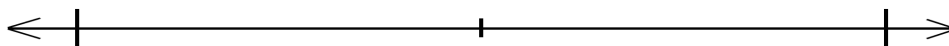
Date \_\_\_\_\_

1. Draw tape diagrams to compare the following fractions:

$$\frac{2}{5} \quad \underline{\hspace{2cm}} \quad \frac{3}{10}$$

2. Use a number line to compare the following fractions:

$$\frac{4}{3} \quad \underline{\hspace{2cm}} \quad \frac{7}{6}$$



Name \_\_\_\_\_

Date \_\_\_\_\_

Draw an area model for each pair of fractions, and use it to compare the two fractions by writing  $>$ ,  $<$ , or  $=$  on the line.

1.  $\frac{3}{4}$  \_\_\_\_\_  $\frac{4}{5}$

2.  $\frac{2}{6}$  \_\_\_\_\_  $\frac{3}{5}$

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve. Use a number bond to decompose the difference. Record your final answer as a mixed number.

$$\frac{16}{9} - \frac{5}{9}$$

2. Solve. Use a number bond to decompose the sum. Record your final answer as a mixed number.

$$\frac{5}{12} + \frac{10}{12}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve. Model the problem with a number line, and solve by both counting up and subtracting.

$$1 - \frac{2}{5}$$

2. Find the difference in two ways. Use a number bond to show the decomposition.

$$1\frac{2}{7} - \frac{5}{7}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve the following problems. Use number bonds to help you.

1.  $\frac{5}{9} + \frac{2}{9} + \frac{4}{9}$

2.  $1 - \frac{5}{8} - \frac{1}{8}$



Name \_\_\_\_\_

Date \_\_\_\_\_

1. Draw a number line to model the addition. Solve, and then write a complete number sentence.

$$\frac{5}{8} + \frac{2}{4}$$

2. Solve without drawing a model.

$$\frac{3}{4} + \frac{1}{2}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve. Write a complete number sentence. Use a number bond to write each sum as a mixed number. Use a model if needed.

1.  $\frac{1}{4} + \frac{7}{8}$

2.  $\frac{2}{3} + \frac{7}{12}$



Name \_\_\_\_\_

Date \_\_\_\_\_

Complete the subtraction sentences using number bonds. Draw a model if needed.

1.  $6 - \frac{1}{5} =$  \_\_\_\_\_

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

3.  $7 - \frac{5}{8} =$  \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

Multiply and write the product as a mixed number. Draw a number line to support your answer.

1.  $8 \times \frac{1}{2}$

2. 7 copies of 1 fourth

3.  $13 \times \frac{1}{3}$

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Rename the fraction as a mixed number by decomposing it into two parts. Model the decomposition with a number line and a number bond.

$$\frac{17}{5}$$

2. Convert the fraction to a mixed number. Model with a number line.

$$\frac{19}{3}$$

3. Convert the fraction to a mixed number.

$$\frac{11}{4}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

Convert each mixed number to a fraction greater than 1.

1.  $3\frac{1}{5}$

2.  $2\frac{3}{5}$

3.  $4\frac{2}{9}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Compare the fractions given below by writing  $>$ ,  $<$ , or  $=$ .

Give a brief explanation for each answer, referring to benchmark fractions.

1.  $3\frac{2}{3}$  \_\_\_\_\_  $3\frac{4}{6}$

2.  $\frac{12}{3}$  \_\_\_\_\_  $\frac{27}{7}$

3.  $\frac{10}{6}$  \_\_\_\_\_  $\frac{5}{4}$

4.  $3\frac{2}{5}$  \_\_\_\_\_  $3\frac{3}{10}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Compare each pair of fractions using  $>$ ,  $<$ , or  $=$  using any strategy.

1.  $4\frac{3}{8}$  \_\_\_\_\_  $4\frac{1}{4}$

2.  $3\frac{4}{5}$  \_\_\_\_\_  $3\frac{9}{10}$

3.  $2\frac{1}{3}$  \_\_\_\_\_  $2\frac{2}{5}$

4.  $10\frac{2}{5}$  \_\_\_\_\_  $10\frac{3}{4}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Mr. O'Neil asked his students to record the length of time they read over the weekend. The times are listed in the table.

- At the bottom of the page, make a line plot of the data.
- One of the students read  $\frac{3}{4}$  hour on Friday,  $\frac{3}{4}$  hour on Saturday, and  $\frac{3}{4}$  hour on Sunday. How many hours did that student read over the weekend? Name that student.

Student	Length of time (in hours)
Robin	$\frac{1}{2}$
Bill	1
Katrina	$\frac{3}{4}$
Kelly	$1\frac{3}{4}$
Mary	$1\frac{1}{2}$
Gail	$2\frac{1}{4}$
Scott	$1\frac{3}{4}$
Ben	$2\frac{2}{4}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Estimate each sum or difference to the nearest half or whole number by rounding. Explain your estimate using words or a number line.

1.  $2\frac{9}{10} + 2\frac{1}{4} \approx$  \_\_\_\_\_

2.  $11\frac{8}{9} - 3\frac{3}{8} \approx$  \_\_\_\_\_



Name \_\_\_\_\_

Date \_\_\_\_\_

Solve.

1.  $3\frac{2}{5} + \underline{\hspace{1cm}} = 4$

2.  $2\frac{3}{8} + \frac{7}{8}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve.

1.  $2\frac{3}{8} + 1\frac{5}{8}$

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

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve.

1.  $10\frac{5}{6} - \frac{4}{6}$

2.  $8\frac{3}{8} - \frac{6}{8}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve using any strategy.

1.  $4\frac{2}{3} - 2\frac{1}{3}$

2.  $12\frac{5}{8} - 8\frac{7}{8}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve.

1.  $7\frac{1}{6} - 2\frac{4}{6}$

2.  $12\frac{5}{8} - 3\frac{7}{8}$

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Solve using unit form.

$$5 \times \frac{2}{3}$$

2. Solve.

$$11 \times \frac{5}{6}$$

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve using any method.

1.  $7 \times \frac{3}{4}$

2.  $9 \times \frac{2}{5}$

3.  $60 \times \frac{5}{8}$

Name \_\_\_\_\_

Date \_\_\_\_\_

Multiply. Write each product as a mixed number.

1.  $4 \times 5\frac{3}{8}$

2.  $4\frac{3}{10} \times 3$



Name \_\_\_\_\_

Date \_\_\_\_\_

1. Fill in the unknown factors.

$$8 \times 5\frac{2}{3} = (\underline{\quad} \times 5) + (\underline{\quad} \times \frac{2}{3})$$

2. Multiply. Use the distributive property.

$$6\frac{5}{8} \times 7$$

Name \_\_\_\_\_

Date \_\_\_\_\_

Use the RDW process to solve.

Jeff has ten packages that he wants to mail. Nine identical packages weigh  $2\frac{7}{8}$  pounds each. A tenth package weighs two times as much as one of the other packages. How many pounds do all ten packages weigh?

Name \_\_\_\_\_

Date \_\_\_\_\_

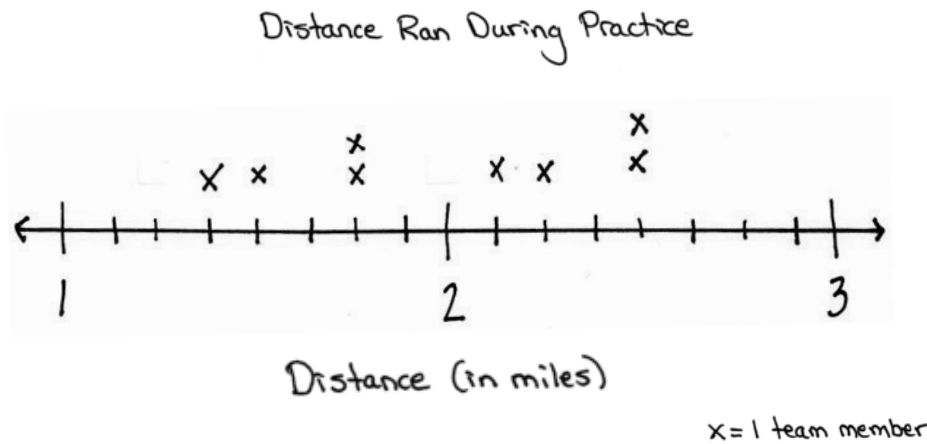
Coach Taylor asked his team to record the distance they ran during practice.

The distances are listed in the table.

1. Use the table to locate the incorrect data on the line plot.

Circle any incorrect points.

Mark any missing points.



Team Members	Distance (in miles)
Alec	$1\frac{3}{4}$
Henry	$1\frac{1}{2}$
Charles	$2\frac{1}{8}$
Steve	$1\frac{3}{4}$
Pitch	$2\frac{2}{4}$
Raj	$1\frac{6}{8}$
Pam	$2\frac{1}{2}$
Tony	$1\frac{3}{8}$

2. Of the team members who ran  $1\frac{6}{8}$  miles, how many miles did those team members run combined?

Name \_\_\_\_\_

Date \_\_\_\_\_

Find the sums.

1.  $\frac{0}{20} + \frac{1}{20} + \frac{2}{20} + \cdots + \frac{20}{20}$

2.  $\frac{0}{200} + \frac{1}{200} + \frac{2}{200} + \cdots + \frac{200}{200}$

# Assessment Packet

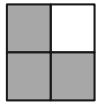
Name \_\_\_\_\_

Date \_\_\_\_\_

1. Let each small square represent  $\frac{1}{4}$ .

- a. Using the same unit, draw and shade the following fractions.  
Represent each as a sum of unit fractions.

Example:  $\frac{3}{4}$



$\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

i. 1

ii.  $\frac{2}{4}$ iii.  $\frac{5}{4}$ 

- b. Record the decompositions of Parts (i) and (iii) using only 2 addends.

i.

iii.

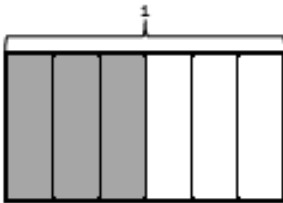
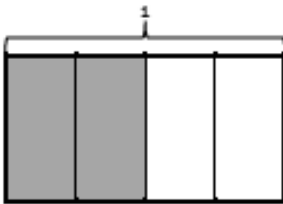
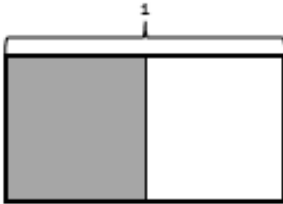
- c. Rewrite the equations from Part (a) as the multiplication of a whole number by a unit fraction.

i.

ii.

iii.

2. a. Using the fractional units shown, identify the fraction of the rectangle that is shaded. Continue this pattern by drawing the next area model in the sequence and identifying the fraction shaded.



- b. Use multiplication to explain why the first two fractions are equivalent.

3. Cross out the fraction that is not equivalent to the other three. Show how you know.

a.  $\frac{3}{5}$     $\frac{60}{100}$     $\frac{6}{10}$     $\frac{6}{5}$

b.  $\frac{6}{4}$     $\frac{3}{2}$     $\frac{12}{8}$     $\frac{8}{4}$

c.  $\frac{6}{4}$     $\frac{16}{12}$     $\frac{9}{6}$     $\frac{3}{2}$

4. Fill in the circle with  $<$ ,  $=$ , or  $>$  to make a true number sentence. Justify each response by drawing a model (such as an area model or a number line), creating common denominators or numerators, or explaining a comparison to a benchmark fraction.

a.  $\frac{6}{5}$    $\frac{4}{5}$

b.  $\frac{5}{8}$    $\frac{5}{10}$

c.  $\frac{5}{5}$    $\frac{12}{12}$

d.  $\frac{5}{12}$    $\frac{6}{10}$

e.  $\frac{5}{6}$    $\frac{3}{4}$

f.  $\frac{8}{3}$    $\frac{16}{6}$

g.  $\frac{7}{4}$    $\frac{9}{5}$

h.  $\frac{12}{8}$    $\frac{11}{6}$



5. Fill in the blanks to make each number sentence true. Draw a number line, a tape diagram, or an area model to represent each problem.

a. \_\_\_\_\_ =  $\frac{5}{12} + \frac{6}{12}$

b.  $\frac{53}{100} - \frac{27}{100} =$  \_\_\_\_\_

c.  $\frac{8}{12} +$  \_\_\_\_\_ = 1

d.  $\frac{3}{10} + \frac{6}{10} + \frac{2}{10} =$  \_\_\_\_\_

e.  $1 - \frac{5}{8} =$  \_\_\_\_\_

f.  $\frac{7}{8} - \frac{3}{8} =$  \_\_\_\_\_

6. Ray, Robin, and Freddy went fishing.
- a. They spent  $\frac{1}{6}$  of their money on water,  $\frac{4}{6}$  of their money on lunch, and the rest on worms. What fraction of their money was spent on worms? Draw a model, and write an equation to solve.
- b. Robin noticed her water bottle was  $\frac{1}{2}$  full and Freddy's was  $\frac{3}{4}$  full. Robin said, "My  $\frac{1}{2}$  full bottle has more water than your  $\frac{3}{4}$  full bottle." Explain how  $\frac{1}{2}$  bottle could be more than  $\frac{3}{4}$  bottle.
- c. Ray, Robin, and Freddy each had identical containers of worms. Ray used  $\frac{3}{8}$  container. Robin used  $\frac{6}{8}$  container, and Freddy used  $\frac{7}{8}$  container. How many total containers of worms did they use?
- d. Express the number of remaining containers as a product of a whole number and a unit fraction.
- e. Six out of the eight fish they caught were trout. What is another fraction equal to 6 eighths? Write a number sentence, and draw a model to show the two fractions are equal.

Name \_\_\_\_\_

Date \_\_\_\_\_

1. a. Partition the tape diagram to show  $5 \times \frac{2}{3}$ . Partition the number line to show  $10 \times \frac{1}{3}$ .



- b. Use the models above to explain why  $5 \times \frac{2}{3} = 10 \times \frac{1}{3}$ .

2. Fill in the circles below with  $<$ ,  $=$ , or  $>$  to make true number sentences. Use decomposition or multiplication to justify your answer.

a.  $7$    $\frac{43}{6}$

b.  $11\frac{1}{3}$    $\frac{34}{3}$

c.  $\frac{13}{6}$    $\frac{38}{12}$

3. Generate a pattern of at least 13 fractions by adding  $\frac{4}{3}$  to  $\frac{1}{3}$  and then continuing to add  $\frac{4}{3}$  to each fraction. Circle each fraction equal to a whole number. Write what you notice about the pattern of whole numbers. The first two fractions are written for you.

$$\frac{1}{3}, \frac{5}{3},$$

4. Find each sum or difference.

a.  $6\frac{4}{10} + 7\frac{7}{10}$

b.  $3\frac{3}{8} + 6\frac{5}{8} + 1\frac{7}{8}$

c.  $1\frac{9}{12} - 1\frac{4}{12}$

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

5. a. Rewrite  $3 \times \frac{6}{8}$  as the product of a unit fraction and a whole number. Solve.

b. Rewrite  $4 \times 6\frac{2}{3}$  as the product of a unit fraction and a whole number. Solve.

6. Determine if the following are true or false. Explain how you know using models or words. Make false problems true by rewriting the right side of the number sentence.

a.  $7\frac{1}{3} = 7 + \frac{1}{3}$

b.  $\frac{5}{3} = \frac{3}{3} + \frac{2}{3}$

c.  $\frac{13}{6} - \frac{5}{6} = \frac{13-5}{6}$

d.  $\frac{11}{3} = 11 + \frac{1}{3}$

e.  $\frac{7}{8} + \frac{7}{8} + \frac{7}{8} + \frac{7}{8} = 4 \times \frac{7}{8}$

f.  $5 \times 3\frac{3}{4} = 15 + \frac{3}{4}$

7. The chart to the right shows data Amashi collected about butterfly wingspans.

- At the bottom of this page, create a line plot to display the data in the table.
- What is the difference in wingspan between the widest and narrowest butterflies on the chart?
- Three butterflies have the same wingspan. Explain how you know the measurements are equal.

Butterfly	Wingspan (inches)
Monarch	$3\frac{7}{8}$
Milbert's Tortoiseshell	$2\frac{5}{8}$
Zebra Swallowtail	$2\frac{1}{2}$
Viceroy	$2\frac{6}{8}$
Postman	$3\frac{3}{8}$
Purple Spotted Swallowtail	$2\frac{2}{8}$
Julia	$3\frac{2}{4}$
Southern Dogface	$2\frac{3}{8}$
Tiger Swallowtail	$3\frac{1}{2}$
Regal Fritillary	$3\frac{4}{8}$

Solve each problem. Draw a model, write an equation, and write a statement for each.

- d. Amashi wants to display a Postman and Viceroy side by side in a photo box with a width of 6 inches. Will these two butterflies fit? Explain how you know.
- e. Compare the wingspan of the Milbert's Tortoiseshell and the Zebra Swallowtail using  $>$ ,  $<$ , or  $=$ .
- f. The Queen Alexandra Birdwing can have a wingspan that is 5 times as wide as the Southern Dogface's. How many inches can the Birdwing's wingspan be?
- g. Amashi discovered a pattern. She started with  $2\frac{2}{8}$  inches and added  $\frac{1}{8}$  inch to each measurement. List the next four measurements in her pattern. Name the five butterflies whose wingspans match the measurements in her pattern.