Α

# Correct\_

Write the missing factor.

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



Lesson 1:

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

8/7/13



3.A.10

В

Improvement\_\_\_\_# Correct\_

Write the missing factor.

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



Lesson 1:

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

8/7/13

engage<sup>ny</sup>

3.A.11

# Correct \_\_\_\_\_

	Find the missing numerator or d	enominator.		
1	$\frac{1}{2} = \frac{1}{4}$	23	$\frac{1}{3} = \frac{1}{12}$	
2	$\frac{1}{5} = \frac{2}{}$	24	$\frac{2}{3} = \frac{2}{12}$	
3	$\frac{2}{5} = \frac{10}{10}$	25	$\frac{8}{12} = \frac{3}{3}$	
4	$\frac{3}{5} = \frac{10}{10}$	26	$\frac{12}{16} = \frac{3}{16}$	
5	$\frac{4}{5} = \frac{10}{10}$	27	$\frac{3}{5} = \frac{3}{25}$	
6	$\frac{1}{3} = \frac{2}{}$	28	$\frac{4}{5} = \frac{28}{}$	
7	$\frac{2}{3} = \frac{1}{6}$	29	$\frac{18}{24} = \frac{3}{2}$	
8	$\frac{1}{3} = \frac{3}{}$	30	$\frac{24}{30} = \frac{1}{5}$	
9	$\frac{2}{3} = \frac{1}{9}$	31	$\frac{5}{6} = \frac{35}{}$	
10	$\frac{1}{4} = \frac{1}{8}$	32	$\frac{56}{63} = \frac{1}{9}$	
11	$\frac{3}{4} = \frac{1}{8}$	33	$\frac{64}{72} = \frac{8}{}$	
12	$\frac{1}{4} = \frac{3}{}$	34	$\frac{\frac{56}{63} = \frac{1}{9}}{\frac{64}{72}} = \frac{8}{10}$ $\frac{\frac{5}{8}}{\frac{1}{8}} = \frac{\frac{1}{64}}{\frac{1}{10}}$	
13	$\frac{3}{4} = \frac{9}{}$	35	$\frac{3}{6} = \frac{43}{}$	*,
14	$\frac{2}{4} = \frac{1}{2}$	36	$\frac{45}{81} = \frac{1}{9}$	
15	$\frac{\frac{2}{4}}{\frac{2}{6}} = \frac{1}{2}$	37	$\frac{6}{7} = \frac{48}{}$	
16	$\frac{2}{10} = \frac{1}{}$	38	$\frac{36}{81} = \frac{1}{9}$	
17	$\frac{4}{10} = \frac{4}{5}$	39	$\frac{8}{56} = \frac{1}{}$	
18	$\frac{8}{10} = {5}$	40	$\frac{35}{63} = \frac{5}{}$	
19	$\frac{3}{9} = \frac{1}{3}$	41	$\frac{1}{6} = \frac{12}{}$	
20	$\frac{6}{9} = \frac{1}{3}$	42	$\frac{3}{7} = \frac{36}{}$	
21	$\frac{3}{12} = \frac{1}{}$	43	$\frac{48}{60} = \frac{4}{}$	
22	$\frac{9}{12} = \frac{1}{4}$	44	$\frac{72}{84} = \frac{7}{7}$	
		@ Pill Davidco		

© Bill Davidson



Lesson 2:

Date:

Make equivalent fractions with sums of fractions with like denominators.

8/7/13



В	Find the missing numerator or denom	Improvement	# Correct
1	$\frac{1}{5} = \frac{2}{}$	23	$\frac{1}{3} = \frac{4}{}$
2	$\frac{2}{5} = \frac{2}{10}$	24	$\frac{2}{3} = \frac{8}{}$
3	$\frac{3}{5} = \frac{10}{10}$	25	$\frac{8}{12} = \frac{2}{}$
4	$\frac{4}{5} = \frac{4}{10}$	26	$\frac{12}{16} = \frac{1}{4}$
5	$\frac{1}{2} = \frac{2}{}$	27	$\frac{3}{5} = \frac{15}{1}$
6	$\frac{1}{3} = \frac{1}{6}$	28	$\frac{4}{5} = \frac{4}{35}$
7	$\frac{2}{3} = \frac{4}{}$	29	$\frac{18}{24} = \frac{1}{4}$
8	$\frac{1}{3} = \frac{1}{9}$	30	$\frac{24}{30} = \frac{4}{}$
. 9	$\frac{2}{3} = \frac{6}{}$	31	$\frac{5}{6} = \frac{5}{42}$
10	$\frac{1}{4} = \frac{2}{}$	32	$\frac{56}{63} = \frac{8}{}$
11	$\frac{3}{4} = \frac{6}{}$	. 33	$\frac{64}{72} = \frac{1}{9}$
12	$\frac{1}{4} = \frac{1}{12}$	34	$\frac{5}{8} = \frac{40}{}$
13	$\frac{3}{4} = \frac{3}{12}$	35	$\frac{5}{6} = \frac{5}{54}$
14	$\frac{2}{4} = \frac{1}{}$	36	$\frac{45}{81} = \frac{5}{}$
15	$\frac{2}{6} = \frac{1}{3}$	37	$\frac{6}{7} = \frac{1}{56}$
16	$\frac{2}{10} = \frac{1}{5}$	38	$\frac{36}{81} = \frac{4}{}$
17	$\frac{4}{10} = \frac{2}{10}$	39	$\frac{8}{56} = \frac{1}{7}$
18	$\frac{8}{10} = \frac{4}{}$	40	$\frac{35}{63} = \frac{1}{9}$
19	$\frac{3}{9} = \frac{1}{}$	41	$\frac{1}{6} = \frac{1}{72}$
20	$\frac{6}{9} = \frac{2}{3}$	42	$\frac{3}{7} = \frac{3}{84}$
21	$\frac{1}{4} = \frac{1}{12}$	43	$\frac{48}{60} = \frac{1}{5}$
22	$\frac{9}{12} = \frac{3}{}$	44	$\frac{72}{84} = \frac{6}{}$

© Bill Davidson



Lesson 2:

Make equivalent fractions with sums of fractions with like denominators.

engage<sup>ny</sup>

3.A.25

Δ

# Correct

A Find	the missing numerator or denominat	0.5	# C	orrect
Tin		· I I	, ,	
1	$\frac{1}{2} = \frac{1}{4}$	23	$\frac{1}{3} = \frac{1}{12}$	
2	$\frac{1}{5} = \frac{2}{}$	24	$\frac{2}{3} = \frac{2}{12}$	
3	$\frac{2}{5} = \frac{2}{10}$	25	$\frac{8}{12} = {3}$	
4	$\frac{3}{5} = \frac{3}{10}$	26	$\frac{12}{16} = \frac{3}{16}$	
5	$\frac{4}{5} = \frac{4}{10}$	27.	$\frac{3}{5} = \frac{3}{25}$	
6	3	28	$\frac{4}{5} = \frac{28}{}$	
7	$\frac{2}{3} = \frac{1}{6}$	29	$\frac{18}{24} = \frac{3}{}$	W
8	$\frac{1}{3} = \frac{3}{}$	30	$\frac{24}{30} = \frac{1}{5}$	
9	$\frac{2}{3} = \frac{1}{9}$	31	$\frac{5}{6} = \frac{35}{}$	
10	$\frac{1}{4} = \frac{1}{8}$	32	$\frac{56}{63} = \frac{1}{9}$	
11	$\frac{3}{4} = \frac{3}{8}$	33	$\frac{64}{72} = \frac{8}{}$	
12	$\frac{1}{4} = \frac{3}{}$	34	$\frac{5}{8} = \frac{5}{64}$	
13	$\frac{3}{4} = \frac{9}{}$	35	$\frac{5}{6} = \frac{45}{}$	
14	$\frac{2}{4} = \frac{1}{2}$	36	$\frac{45}{81} = \frac{1}{9}$	
15	$\frac{2}{6} = \frac{1}{}$	37	$\frac{6}{7} = \frac{48}{}$	
16	$\frac{2}{10} = \frac{1}{}$	38	$\frac{36}{81} = \frac{1}{9}$	
17	$\frac{4}{10} = \frac{1}{5}$	39	$\frac{8}{56} = \frac{1}{}$	
18	$\frac{8}{10} = \frac{1}{5}$	40	$\frac{35}{63} = \frac{5}{}$	
19	$\frac{3}{9} = \frac{3}{3}$	41	$\frac{1}{6} = \frac{12}{}$	
20	$\frac{6}{9} = \frac{1}{3}$	42	$\frac{3}{7} = \frac{36}{}$	

© Bill Davidson

43

44



21

22

Lesson 3:

Add fractions with unlike units using the strategy of creating equivalent engage hy

3.B.12

В	Find the missing numerator or de	Improvement	# Correct	t
1	$\frac{1}{5} = \frac{2}{}$	23	$\frac{1}{3} = \frac{4}{}$	
2	$\frac{2}{5} = \frac{10}{10}$	24	$\frac{1}{3} = \frac{4}{3}$ $\frac{2}{3} = \frac{8}{3}$	
3	$\frac{3}{5} = \frac{10}{10}$	25	$\frac{8}{12} = \frac{2}{}$	
4	$\frac{4}{5} = \frac{10}{10}$	26	$\frac{12}{16} = \frac{1}{4}$	
5	$\frac{1}{2} = \frac{2}{}$	27	$\frac{3}{5} = \frac{15}{}$	
6	$\frac{1}{3} = \frac{1}{6}$ $\frac{2}{3} = \frac{4}{3}$	28	$\frac{4}{5} = \frac{3}{35}$	N.
7		29	$\frac{18}{24} = \frac{1}{4}$	
8	$\frac{1}{3} = \frac{1}{9}$	30	$\frac{24}{30} = \frac{4}{}$	~
9	$\frac{2}{3} = \frac{6}{}$	31	$\frac{5}{6} = \frac{5}{42}$	
10	$\frac{1}{4} = \frac{2}{}$	32	$\frac{56}{63} = \frac{8}{}$	
11	$\frac{3}{4} = \frac{6}{}$	33	$\frac{64}{72} = \frac{1}{9}$	
12	$\frac{1}{4} = \frac{1}{12}$	34	$\frac{5}{8} = \frac{40}{}$ $\frac{5}{6} = {54}$	
13	$\frac{3}{4} = \frac{3}{12}$	35	$\frac{5}{6} = \frac{5}{54}$	
14	$\frac{2}{4} = \frac{1}{}$	36	$\frac{45}{81} = \frac{5}{}$	
15	$\frac{2}{6} = \frac{1}{3}$	37	$\frac{6}{7} = {56}$	
16	$\frac{2}{10} = \frac{2}{5}$ $\frac{4}{10} = \frac{2}{5}$	38	$\frac{36}{81} = \frac{4}{}$	
17	10	39	$\frac{8}{56} = {7}$	÷
18	$\frac{8}{10} = \frac{4}{}$	40	$\frac{35}{63} = \frac{1}{9}$	
19	$\frac{3}{9} = \frac{1}{}$	41	$\frac{1}{6} = \frac{1}{72}$	0
20	$\frac{6}{9} = \frac{2}{}$	42	$\frac{3}{7} = \frac{3}{84}$	
21	$\frac{1}{4} = \frac{1}{12}$	43	$\frac{48}{60} = \frac{1}{5}$	
22	$\frac{1}{4} = \frac{1}{12}$ $\frac{9}{12} = \frac{3}{12}$	44	$\frac{72}{84} = \frac{6}{}$	

© Bill Davidson



Lesson 3:

Date:

Add fractions with unlike units using the strategy of creating equivalent engage  $^{\mathrm{ny}}$ 

Subtract. Give each answer in its simplest form.

# Correct \_\_\_\_\_

- 3	ubtract. Give each answer in its simplest	ionn.		5
1	$4 - \frac{1}{2} =$	23	$3 - \frac{1}{8} =$	
2	3-1/2=	24	$3 - \frac{3}{8} =$	
3	2-1/2 =	25	$3 \cdot \frac{5}{8} =$	
4	1 - 1/2 =	26	3-7/8 =	
5	$1 - \frac{1}{3} =$	27	2-7/8 =	
6	$2 - \frac{1}{3} =$	28	4 - 1/7 =	*1
7	$4 - \frac{1}{3} =$	29	$3 - \frac{6}{7} =$	
8	$4 - \frac{2}{3} =$	30	2-37=	
9	2-2/3=	31	4 - 4/7 =	
10	2-1/4=	32	3 · 5/7 =	
11	$2 - \frac{3}{4} =$	33	$4 - \frac{3}{4} =$	
12	$3 \cdot \frac{3}{4} =$	34	$2 - \frac{5}{8} = 3 - \frac{3}{10} =$	
13	3-1/4=	35	$3 - \frac{3}{10} =$	
14	4 - 3/4 =	36	$4 - \frac{2}{5} =$	
15	2 - 1/10 =	37	$4 - \frac{3}{7} =$	**
16	3 - 9/10 =	38	3-7/10 =	
17	2-7/10 =	39	$3 \cdot \frac{5}{10} =$	
18	$4 - \frac{3}{10} =$	40	$4 - \frac{2}{9} =$	
19	$4 - \frac{3}{10} = 3 - \frac{1}{5} = 3 - \frac{2}{5} = 3 - \frac{4}{5} = 3 - \frac{3}{5} =$	41	$2 - \frac{\frac{8}{12}}{12} =$ $4 - \frac{\frac{2}{12}}{12} =$ $3 - \frac{2}{6} =$ $2 - \frac{8}{12} =$	
20	$3 \cdot \frac{2}{5} =$	42	$4 - \frac{2}{12} =$	
21	$3 - \frac{4}{5} =$	43	$3 - \frac{2}{6} =$	80)
22	$3 \cdot \frac{3}{5} =$	44	2-8/12 =	-

Bill Davidson



Lesson 5:

Date:

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

8/7/13



В	btract. Give each answer in its s	Improvement		rrect
1	$1 - \frac{1}{2} =$	23	2 - 1/8 =	
2	2-1/2=	24	$2 - \frac{3}{8} =$	
3	3-1/2=	25	$2 \cdot \frac{5}{8} =$ $2 \cdot \frac{7}{8} =$	
4	$4 \cdot \frac{1}{2} =$	26	2-7/8=	
5	1-1/4=	27	4 - 7/8 =	
6	2-1/4=	28	$3 \cdot \frac{1}{7} =$	
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	2-1/3=	32	2-5/7=	
11	$2 - \frac{2}{3} =$	33	$3 \cdot \frac{3}{4} =$	
12	$3 \cdot \frac{2}{3} =$	34	4 - 5/8 =	
13	3-1/3=	35	$4 \cdot \frac{5}{8} = 2 \cdot \frac{3}{10} = 3 \cdot \frac{2}{5} = $	
14	$4 - \frac{2}{3} =$	36	$3 \cdot \frac{2}{5} =$	
15	3 - 1/10 =	37	3 3 -	
16	$2 \cdot \frac{9}{10} =$	38	2-7=	
17	4 - 7/10 =	. 39	$2 \cdot \frac{5}{10} =$	
18	$4 - \frac{7}{10} = 3 - \frac{3}{10} = 2 - \frac{1}{5} = 2 - \frac{2}{5} = 2 - \frac{4}{5} = 3 - \frac{3}{5} $	40	3-6/8=	
19	2-1/5 =	41	$3 \cdot \frac{6}{8} =$ $4 \cdot \frac{3}{12} =$ $3 \cdot \frac{10}{12} =$ $2 \cdot \frac{4}{6} =$ $4 \cdot \frac{4}{12} =$	
20	$2 \cdot \frac{2}{5} =$	42	3-10 =	
21	$2 - \frac{4}{5} =$	43	$2 - \frac{4}{6} =$	
22	$3 - \frac{3}{5} =$	44	$4 - \frac{4}{12} =$	

© Bill Davidson



Lesson 5:

Date:

8/7/13

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

engage<sup>ny</sup>

# # Correct\_

Express as an improper fraction.

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



Lesson 6: Date:

Subtract fractions from numbers between 1 and 2. 8/7/13



В

# Correct\_

#### Express as an improper fraction.

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



Lesson 6: Date:

Subtract fractions from numbers between 1 and 2. 8/7/13



A	Circle the equivalent frac	ction					# Соптес	t
1	$\frac{2}{4}$	$\frac{1}{2}$	$\frac{1}{3}$	23	$\frac{9}{27} =$	$\frac{2}{3}$	$\frac{1}{3}$	$\frac{1}{4}$
2	$\frac{2}{6} =$	1	$\frac{3}{\frac{1}{3}}$	24	$\frac{27}{63} =$	$\frac{1}{6}$	1	1
3	2_	$\frac{\overline{2}}{1}$			63 8 _	$\frac{6}{2}$	$\frac{7}{\frac{3}{4}}$	8
3	$\frac{2}{8}$ = $\frac{5}{2}$ =	$\frac{1}{2}$	1 1	25	$\frac{8}{12} = \frac{8}{16} $			$\frac{4}{5}$
4	10	$\frac{1}{2}$	1/4	26	16	$\frac{1}{2}$	$\frac{1}{3}$	1/4
5	$\frac{5}{15}$ =	$\frac{1}{2}$	$\frac{1}{3}$	27	$\frac{8}{24} =$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$
6	$\frac{5}{20} =$	$\frac{1}{2}$	$\frac{1}{4}$	28	$\frac{8}{24} = \frac{8}{64} = \frac{8}{64}$	$\frac{1}{7}$	$\frac{1}{8}$	19
7	$\frac{4}{8}$ =	$\frac{1}{2}$	1	29	$\frac{12}{18} =$	3 4	$\frac{5}{6}$	
8	$\frac{8}{12} =$	$\frac{2}{\frac{1}{2}}$	$\frac{\frac{4}{1}}{\frac{1}{3}}$	30	$\frac{18}{\frac{12}{16}} =$	$\frac{3}{4}$	$\frac{6}{\frac{5}{6}}$	$ \begin{array}{r} \frac{2}{3} \\ \frac{2}{3} \\ \frac{2}{3} \\ \frac{2}{3} \\ \frac{2}{3} \end{array} $
	4	1			$\frac{16}{9} =$		5	3 2
9	$\frac{\frac{1}{16}}{\frac{3}{6}} =$	$\frac{\overline{2}}{1}$	$\frac{\frac{1}{4}}{1}$	31	12	3 4	5 6	$\frac{\overline{3}}{2}$
10	$\frac{3}{6} =$	$\overline{2}$	$\overline{3}$	32	$\frac{\frac{6}{8}}{\frac{10}{12}} =$	3 4	5 6	$\frac{2}{3}$
11	$\frac{3}{9} =$	$\frac{1}{2}$	$\frac{1}{3}$	33	$\frac{10}{12} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
12	$\frac{3}{12} =$	$\frac{1}{2}$	1/4	34	$\frac{15}{18} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
13	$\frac{4}{6}$	$\frac{2}{3}$	1	35	$\frac{8}{10} =$	$\frac{3}{4}$	4 5	$\frac{3}{2}$
14	6 6 —=	$\frac{3}{2}$	$\frac{3}{\frac{1}{2}}$	36	$\frac{10}{\frac{16}{20}} =$	$\frac{3}{4}$	5 4 5	$     \begin{array}{r}       \frac{2}{3} \\       \hline       \hline       \frac{2}{3} \\       \frac{2}{3} \\       \frac{2}{3} \\       \frac{2}{3} \\       $
	12	3 2				3	5 4	3 2
15	$\frac{6}{18}$ =	$\frac{2}{3}$	$\frac{\frac{1}{3}}{1}$	37	$\frac{12}{15} =$	3 4	<u>4</u> <u>5</u>	3
16	$\frac{6}{30}$ =	$\frac{1}{5}$	$\overline{3}$	38	$\frac{18}{27} =$	$\frac{3}{4}$	$\frac{4}{5}$	
17	$\frac{6}{9} =$	$\frac{2}{3}$	$\frac{1}{3}$	39	$\frac{27}{36} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
18	$\frac{7}{14} =$	$\frac{1}{2}$	$\frac{1}{3}$	40	$\frac{32}{40} =$	$\frac{3}{4}$	<del>4</del> <del>5</del>	$\frac{2}{3}$
19	7=	$\frac{1}{2}$	$\frac{3}{\frac{1}{3}}$	41	<u>45</u> _	$\frac{3}{4}$	$\frac{3}{\frac{4}{5}}$	$ \begin{array}{r} \frac{2}{3} \\ \frac{2}{3} \\ \frac{5}{6} \end{array} $
20	21 7 =	$\frac{2}{6}$	$\frac{3}{\frac{1}{7}}$	42		3/4	5 4 5	2
	42				$\frac{24}{36} = 60$	3	$\frac{-\frac{1}{5}}{5}$	$ \begin{array}{r} \frac{2}{3} \\ \frac{2}{3} \\ \frac{5}{6} \end{array} $
21	$\frac{8}{12} =$	$\frac{2}{3}$	3 4	43	$\frac{60}{72} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{\frac{2}{3}}{5}$
22	$\frac{9}{18} =$	$\frac{1}{2}$	$\frac{1}{3}$	44	$\frac{48}{60} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{5}{6}$



Lesson 7: Date:

Solve two-step word problems. 8/7/13



В	Circle the equivalent	fraction	Improvemen	nt			# Correct	
	5	1	1			2	1	1
1	$\frac{1}{10} =$	$\overline{2}$	$\overline{3}$	23	24	$\overline{3}$	$\overline{3}$	<b>4</b>
	5	1		0.4	$\frac{8}{56} =$	1		
2	$\frac{5}{15}$ =	$\frac{1}{2}$	$\frac{1}{3}$	24	$\frac{-}{56}$ =	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{8}$
3	$\frac{5}{20} =$	1	1	25	$\frac{8}{12}$ =	$\frac{2}{3}$	$\frac{3}{4}$	<del>4</del> 5
3	${20}$	$\overline{2}$	<del>4</del>	25	<del>12</del> -	3	4	5
4	$\frac{2}{4}$	1	1	26	<del>9</del> =	1	1	1
4	4	$\overline{2}$	3	20	18	$\overline{2}$	$\overline{3}$	4
5	$\frac{2}{6}$ =	1	1	27	$\frac{9}{27} =$	$\frac{1}{2}$	1	1
	6	$\overline{2}$	3	21	27		3	4
6	$\frac{2}{8}$ =	<u>1</u>	1	28	9=	1_	1_	1
	8	$\overline{2}$	4	20	72	7	8	9
7	$\frac{3}{6}$ =	$\frac{1}{2}$	$\frac{1}{3}$	29	$\frac{12}{18} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
	6			20	18		6	3
8	$\frac{3}{9}$ =	1	<u>l</u>	30	$\frac{6}{-} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
	9	2	3		8		6	3
9	3 =	<u>1</u>	1_	31	$\frac{9}{12} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
	12	4	3		12	4	6	3
10	$\frac{4}{8}$	<u>1</u>	1_	32	$\frac{12}{16} =$	$\frac{3}{4}$	5 6	$\frac{2}{3}$
	8	2	3		16	4		3
11	4 =	$\frac{1}{2}$	$\frac{1}{3}$	33	$\frac{8}{10} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
	12				10	4	4	3
12	$\frac{4}{16} =$	$\frac{1}{4}$	$\frac{1}{3}$	34	$\frac{16}{20} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
	16					4		3
13	$\frac{4}{6}$ =	$\frac{2}{3}$	$\frac{1}{2}$	35	$\frac{12}{15} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{2}{3}$
	0 7					2	<u> </u>	
14	$\frac{7}{14} =$	$\frac{2}{3}$	$\frac{1}{2}$	36	$\frac{10}{12} =$	$\frac{3}{4}$	$\frac{4}{5}$	$\frac{5}{6}$
	7	3 1	1		15	3	5	2
15	$\frac{7}{21} =$	$\frac{1}{5}$	$\frac{1}{3}$	37	$\frac{15}{18} =$	$\frac{3}{4}$	$\frac{3}{6}$	$\frac{2}{3}$
	$\frac{7}{7}$ =	1	1		16		4	2
16	$\frac{1}{35}$ =	$\frac{1}{5}$	$\frac{1}{3}$	38	$\frac{16}{24} =$	$\frac{3}{4}$	5	$\frac{2}{3}$
	6		1				4	
17	$\frac{3}{9}$	$\frac{2}{3}$	$\frac{1}{3}$	39	$\frac{24}{32} =$	$\frac{3}{4}$	$\frac{1}{5}$	$\frac{-}{3}$
4.5	6			1.0	$\frac{36}{36} =$			$\frac{\frac{2}{3}}{\frac{2}{3}}$
18	$\frac{\sigma}{12}$	$\frac{1}{2}$	$\frac{1}{3}$	40	$\frac{-}{45}$ =	$\frac{3}{4}$	<u>4</u> 5	$\frac{-}{3}$
40	6 =			44	40 =		4	5 6
19	18	$\frac{1}{6}$	$\frac{1}{3}$	41	<del></del>	$\frac{3}{4}$	<u>5</u>	$\overline{6}$
20	6	1		42		$\frac{3}{4}$	4	$\frac{2}{3}$
20	36	$\frac{1}{6}$	$\frac{1}{3}$	42	$\frac{24}{36} =$	4	5	$\overline{3}$
24	8 =	$\frac{2}{3}$	$\frac{3}{4}$	12	<del>48</del> =	$\frac{3}{4}$	$\frac{5}{6}$	<del>4</del> <del>5</del>
21	12	$\overline{3}$		43	60	4	6	5
22	$\frac{8}{16} =$	$\frac{1}{2}$	$\frac{1}{3}$	44	$\frac{60}{72} =$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{2}{3}$
	16	$\overline{2}$	3	44	72 -	4	6	$\overline{3}$



Lesson 7: Date:

Solve two-step word problems. 8/7/13



# Correct\_\_\_\_

Add or subtract.

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



Lesson 9: Date:

Add fractions making like units numerically.



В

# Improvement\_

# Correct

Add or subtract.

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



Lesson 9: Date:

Add fractions making like units numerically. 8/7/13



# # Correct\_\_\_\_\_

#### Add or subtract.

	Add or subtract.				
1	3+1=	/	23	$3\frac{5}{6} + 7 =$	/
2	$3 + \frac{1}{2} =$	1	24	$7\frac{5}{6} + 3 =$	/
3	$3\frac{1}{2} + 1 =$	/	25	$10\frac{5}{6} - 3 =$	/
4	3-1=	/	26	$10\frac{5}{6} - 7 =$	1
5	$3\frac{1}{2} - 1 =$	1	27	$3 + \frac{4}{5} + 2 =$	1
6	4 – 2 =	/	28	$5 + \frac{7}{8} + 4 =$	1
7	$4\frac{1}{2} - 2 =$	/	29	$7 + \frac{4}{5} - 2 =$	1
8	5 – 2 =	1	30	$9 + \frac{5}{12} - 5 =$	/
9	$5\frac{1}{3} - 2 =$	/	31	$7 + \frac{1}{5} + \frac{1}{5} + 2 =$	1
10	$5\frac{2}{3} - 2 =$	/	32	$7 + \frac{2}{5} + 2 =$	1
11	$5\frac{2}{3} + 2 =$	/	33	$7 + \frac{2}{5} + 2 + \frac{2}{5} =$	1
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	$6\frac{1}{3} + 1\frac{1}{3} =$	1
15	$6\frac{3}{4} - 2 =$	/	37	$6 + \frac{2}{3} - 1 =$	1
16	$6\frac{3}{4} - 3 =$	/	38	$6\frac{2}{3} - 1\frac{1}{3} =$	1
17	$6\frac{3}{4} - 4 =$	/	39	$6\frac{2}{3} - 1\frac{2}{3} =$	/
18	$6\frac{3}{4} - 6 =$	/	40	$3 + \frac{4}{7} + 1 + \frac{2}{7} =$	1
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	$2\frac{5}{6} + 7 =$	1	44	$13\frac{7}{9} - 7\frac{5}{9} =$	/



Lesson 10: Date:

Add fractions with sums greater than 2. 8/7/13



#### B

# Improvement\_\_\_\_\_

# # Correct\_

Add or subtract.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$4\frac{5}{6} + 6 =$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 6 5/6 + 4 = /
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 10 \frac{5}{6} - 4 = /
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$6  10\frac{5}{6} - 6 =$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$7  4 + \frac{4}{5} + 2 =$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$8  6 + \frac{7}{8} + 3 =$
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 $7\frac{3}{4}-3=$ / / / / / / / / / / / / / / / / / / /	9 $6 + \frac{4}{5} - 2 =$ /
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 $7\frac{3}{4}-3=$ / / / / / / / / / / / / / / / / / / /	0 9 + \frac{5}{12} - 4 = /
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 $7\frac{2}{3} - 1\frac{1}{3} =$ /	$1  6 + \frac{1}{5} + \frac{1}{5} + 2 = $
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 $7\frac{2}{3}-1\frac{1}{3}=$ /	$2  6 + \frac{2}{5} + 2 =$
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$3  6 + \frac{2}{5} + 2 + \frac{2}{5} = $
14 $7\frac{3}{4} + 2 =$ 15 $7\frac{3}{4} - 2 =$ 16 $7\frac{3}{4} - 3 =$ /  38 $7\frac{2}{3} - 1\frac{1}{3} =$ /  38 $7\frac{2}{3} - 1\frac{1}{3} =$ /	$4  6\frac{2}{5} + 2\frac{2}{5} = $
$     \begin{array}{ccccccccccccccccccccccccccccccccc$	$5  5 + \frac{1}{3} + 1 + \frac{1}{3} = $
$16  7\frac{3}{4} - 3 = $ $/$ $38  7\frac{2}{3} - 1\frac{1}{3} = $ $/$	$6  5\frac{1}{3} + 1\frac{1}{3} = $
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$7 + \frac{2}{3} - 1 =$
3 / 2 2 /	$8  7\frac{2}{3} - 1\frac{1}{3} = $
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	9 $7\frac{2}{3} - 1\frac{2}{3} =$ /
18 $7\frac{3}{4} - 7 =$ / 40 $5 + \frac{4}{7} + 1 + \frac{2}{7} =$ /	$0  5 + \frac{4}{7} + 1 + \frac{2}{7} = $
19 $7\frac{3}{4} - \frac{3}{4} =$ / 41 $5\frac{4}{7} + 1\frac{2}{7} =$ /	$1  5\frac{4}{7} + 1\frac{2}{7} = $
20 $3\frac{5}{6} + 2 =$ / 42 $6 + \frac{4}{5} - 2\frac{3}{5} =$ /	$2  6 + \frac{4}{5} - 2\frac{3}{5} = $
21 $3\frac{1}{6} + 2 =$ / 43 $6\frac{4}{5} - 2\frac{3}{5} =$ /	$3  6\frac{4}{5} - 2\frac{3}{5} = $
$22  3\frac{5}{6} + 6 = $ $/ \qquad 44  13\frac{7}{9} - 6\frac{5}{9} = $ $/$	$4  13\frac{7}{9} - 6\frac{5}{9} = $



Lesson 10: Date:

Add fractions with sums greater than 2. 8/7/13



#### Α

# # Correct\_

Subtract.

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



Lesson 12: Date:

Subtract fractions greater than or equal to 1. 8/7/13



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



Lesson 12: Date:

Subtract fractions greater than or equal to 1. 8/7/13



Α

# Correct

1	2/4 =	1	23	9/27 =	1
2	$\frac{\frac{2}{4}}{\frac{2}{6}} =$	1	24	$\frac{9}{63}$ =	1
3	$\frac{2}{8} = \frac{5}{10} = \frac{5}{10}$	1	25	$\frac{8}{12}$ =	1
4	$\frac{5}{10}$ =	1	26	$\frac{\frac{8}{16}}{\frac{8}{24}} = \frac{\frac{8}{64}}{\frac{12}{18}} = \frac{\frac{12}{18}}{\frac{12}{18}} = \frac{\frac{12}{18}}{\frac{12}}{\frac{12}{18}} = \frac{\frac{12}{18}}{\frac{12}}$	1
5	$\frac{5}{15}$ =	1	27	$\frac{8}{24} =$	1
6	$\frac{5}{20} =$ $\frac{4}{8} =$ $\frac{4}{12} =$	1	28	$\frac{8}{64}$ =	1
7	$\frac{4}{8} =$	1	29	$\frac{12}{18} =$	1
8	$\frac{4}{12}$ =	1	30	$\frac{12}{16}$ =	1
9	$\frac{4}{16}$ =	1	31	$\frac{\frac{12}{16}}{\frac{9}{12}} = \frac{\frac{6}{8}}{\frac{1}{8}} = \frac{\frac{1}{12}}{\frac{1}{12}}$	1
10	$\frac{3}{6} = \frac{3}{9} = \frac{3}{9}$	1	32	$\frac{6}{8} =$	1
11	$\frac{3}{9} =$	1	33		1
12	$\frac{3}{12}$ =	1	34	$\frac{10}{12} = \frac{15}{18} = \frac{8}{10} = \frac{10}{10} = \frac{10}$	1
13	$\frac{4}{6}$ =	1	35	$\frac{8}{10} =$	1
14	$\frac{6}{12}$ =	1	36	$\frac{16}{20} = \frac{12}{15} = 12$	1
15	$\frac{6}{18} = \frac{6}{30} $	1	37	15	1
16	$\frac{6}{30} =$	1	38	$\frac{18}{27} = \frac{27}{27} = \frac{18}{27}$	1
17	0	1	39	36	1 .
18	$\frac{\frac{7}{14}}{\frac{7}{21}} =$	1	40	$\frac{32}{40}$ =	1
19	$\frac{7}{21}$ =	1	41	$\frac{45}{54}$ =	1
20	$\frac{21}{42} =$	1	42	$\frac{24}{36}$ =	1
21	$\frac{8}{12} =$	1	43	$\frac{60}{72}$ =	1
22	$\left[\frac{9}{18}\right]$	1	44	<del>[48]</del> =	1

© Bill Davidson



Lesson 14: Date:

Strategize to solve multi-term problems. 8/7/13



B

Improvement \_

# Correct

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

© Bill Davidson



Lesson 14: Date:

Strategize to solve multi-term problems. 8/7/13

engage<sup>ny</sup>

### # Correct\_

Circle the smallest fraction.

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



Lesson 15:

Date:

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

8/7/13



В		Improv	vement	# Cor	rect	
Circle t	the smallest fraction.	\$50	V		*	
1	$\frac{1}{2}$	$\frac{1}{6}$	23	<del>1</del> 4	<del>5</del> <del>8</del>	
2	$\frac{1}{2}$	5 6	24	$\frac{1}{4}$	7 8	
3	1/2	1 8	25	1 4	1/12	
4	1/2	3 8	26	1 4	5 12	
5	$\frac{1}{2}$	7 10	27	1 6	1/12	
6	1/2	$\frac{9}{10}$	28	1/6	5 12	
7	1 2	1/12	29	2 3	<del>1</del> <del>9</del>	
8	1 2	<del>7</del> 12	30	2/3	7 9	
9	1 5	1/10	31	2 3	5 9	
10	<u>1</u> 5	3 10	32	$\frac{2}{3}$	8 9	
11	2 5	7 10	33	3 4	1/2	
12	2 5	9 10	34	3 4	<u>5</u>	
13	3 5	1 10	35	3 4	11 12	
14	3 5	9 10	36	3 4	7 12	
15	4 5	3 10	37	<u>5</u>	1/12	
16	<del>4</del> <del>5</del>	7 10	38	<u>5</u>	11 12	
17	1 3	1 6	39	3 4	5 8	
18	1/3	<u>5</u>	40	3 4	3 8	
19	1/3	<u>5</u>	41	6 7	34 42	
20	1/3	7 9	42	7 8	64 72	
21	1/3	7 12	43	47 54	8 9	
22	1 3	11 12	44	65 72	11 12	



Lesson 15:

Date:

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

8/7/13

engage<sup>ny</sup>