Working with Advanced Fractions

Upper Elementary









Multiples Chart

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

List your common multiples.

Fraction Task Cards Answer Sheet



Advanced Fractions

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Week 2 Week 1

Operations1) 12) 13)
$$\frac{5}{6}$$
4) $\frac{7}{9}$ DrillIsaac made 4 2-point shots (8 points) and 8 1-point shots (8 points) for a total of 12 shots and 16 points.Operations1) $\frac{7}{10}$ 2) $\frac{3}{4}$ 3) $1\frac{1}{3}$ 4) $1\frac{2}{5}$

Drill

1)
$$\frac{7}{10}$$
 2) $\frac{3}{4}$ 3) $1\frac{1}{3}$ 4



A-7

Operations	1) $\frac{8}{9}$	2) $\frac{3}{4}$	3) 3	4) 3
Drill	Yes, the	re will be	enough	because 6+2+6+6= 20.

A-8

Concept20, 40, 60, 80, 100Operations1)
$$1\frac{1}{10}$$
2) $1\frac{1}{16}$ 3) $1\frac{5}{14}$ 4) $1\frac{1}{18}$ Drill $\frac{1}{2}$ pound

A-9

Operations 1)
$$1\frac{4}{9}$$
 2) $\frac{17}{20}$ 3) 2 4) $\frac{4}{15}$
Drill



A-6

Operations
$$1)\frac{11}{12}$$
 $2)$ $1\frac{5}{16}$ $3)$ $1\frac{4}{15}$ $4)$ $1\frac{4}{11}$ DrillTrenton will reach his goal of 50 push-ups on Tuesday of the following week.

A-11

Operations	1) $\frac{1}{2}$ 2) $\frac{9}{13}$ 3) 1 4) $\frac{15}{16}$
Drill	Normally Little Red Riding Hood takes home 3 pies, because half of the normal 6 pies
	is 3 pies. But today, 2 pies were eaten, so she only takes home half of the remaining
	pies, or 2 pies. The difference is one pie.

A-12

Operations	$1)\frac{6}{7}$ 2) 1 3) 2 4) $1\frac{1}{4}$
Drill	8 large sections \times 4 small sections = 32 sections total.
	$\frac{8}{32} = \frac{2}{8} = \frac{1}{4}$. Sally the spider is working on a total of $\frac{1}{4}$ of her full web.

Multiplicative Identity

B-1

B-2

B-3

B-4

B-5

B-6

Operations	1) $4\frac{2}{3}$ 2) $8\frac{5}{8}$ 3) $4\frac{2}{5}$ 4) $2\frac{6}{7}$
Drill	You and your friends buy 2 packages, and eat 3 tacos each. 2 packages, allows for 12 tacos, and 12 is divisible by 4.
Concept Operations Drill	1) $\frac{6}{14}$ 2) $\frac{9}{21}$ 3) $\frac{12}{28}$ 4) $\frac{15}{35}$ 1) $9\frac{1}{7}$ 2) $2\frac{1}{5}$ 3) $6\frac{5}{8}$ 4) $7\frac{1}{2}$ Caleb and Dominic will both be at the starting point in 24 minutes. Caleb will have completed 3 laps and Dominic will have completed 4. 24 is the lowest common multiple of 6 and 8.
Concept	1) $\frac{2}{12}$, $\frac{3}{18}$, $\frac{4}{24}$, $\frac{5}{30}$ 2) $\frac{2}{16}$, $\frac{3}{24}$, $\frac{4}{32}$, $\frac{5}{40}$ 3) $\frac{2}{10}$, $\frac{3}{15}$, $\frac{4}{20}$, $\frac{5}{25}$ 4) $\frac{2}{6}$, $\frac{3}{9}$, $\frac{4}{12}$, $\frac{5}{15}$
Operations	1) $7\frac{1}{4}$ 2) $2\frac{1}{3}$ 3) $2\frac{3}{10}$ 4) $9\frac{5}{7}$
Drill	36 books. 36 is the lowest common multiple of 3, 4 and 9.
Concept	1) $\frac{4}{6}$, $\frac{6}{9}$, $\frac{8}{12}$, $\frac{10}{15}$ 2) $\frac{4}{10}$, $\frac{6}{15}$, $\frac{8}{20}$, $\frac{10}{25}$ 3) $\frac{4}{14}$, $\frac{6}{21}$, $\frac{8}{28}$, $\frac{10}{35}$ 4) $\frac{4}{18}$, $\frac{6}{27}$, $\frac{8}{36}$, $\frac{10}{45}$
Operations	1) $6\frac{7}{8}$ 2) $\frac{2}{9}$ 3) $4\frac{5}{6}$ 4) $4\frac{1}{7}$
Drill	The large wheel will go around 5 times and the small wheel will go around 8 times.
Concept	1) $\frac{6}{10}$, $\frac{9}{15}$, $\frac{12}{20}$, $\frac{15}{25}$ 2) $\frac{14}{16}$, $\frac{21}{24}$, $\frac{28}{32}$, $\frac{35}{40}$ 3) $\frac{10}{12}$, $\frac{15}{18}$, $\frac{20}{24}$, $\frac{25}{30}$ 4) $\frac{18}{20}$, $\frac{27}{30}$, $\frac{36}{40}$, $\frac{45}{50}$
Operations	1) 3 2) 7 3) 9 4) 2
Drill	The slower light blinks 10 times per minute, or once every 6 seconds. The faster light blinks 12 times per minute, or once every 5 seconds. This means that they will blink at the same time after 30 seconds, which is the lowest common multiple of 5 and 6.
Operations Drill	1) 1 2) 5 3) 4 4) 8 Erich and Evan would meet on the soccer field again after 20 days. 20 is the lowest common multiple of 4 and 5.

	Operations Drill	1) $10\frac{7}{10}2$) $2\frac{7}{8}$ 3) $4\frac{3}{4}$ 4) $7\frac{5}{6}$ The Bells at St. Mary's toll 5 times per minute, or once every 12 seconds. The Bells at St, Jude's toll 6 times per minute, or once every 10 seconds. The Bells at St. Joseph's toll 3 times per minute, or once every 20 seconds. They will all toll at the same time after 60 seconds, because 60 is the lowest common multiple of 10, 12 and 20.
B-8		
	Concept Operations Drill	1) GCF = 3, $\frac{3}{4}$ 2) GCF = 4, $\frac{1}{4}$ 3) GCF = 10, $\frac{1}{3}$ 4) GCF = 7, $\frac{3}{4}$ 1) $3\frac{1}{12}$ 2) $8\frac{2}{5}$ 3) $6\frac{1}{6}$ 4) $7\frac{3}{7}$ The smallest amount of hot dogs Trish can buy is 40 hot dogs. That would be 4 packages of hot dogs and 5 packages of buns.
B-9		
	Concept Operations Drill	1) GCF = 6, $\frac{1}{2}$ 2) GCF = 8, $\frac{1}{2}$ 3) GCF = 5, $\frac{2}{5}$ 4) GCF = 8, $\frac{4}{5}$ 1) $3\frac{9}{10}$ 2) $3\frac{4}{5}$ 3) 6 4) $10\frac{1}{5}$ It will be 10 days before the two play on the same day. 10 is the lowest common multiple of 2 and 5.
B-10		
	Concept Operations Drill	1) GCF = 6, $\frac{1}{3}$ 2) GCF = 4, $\frac{1}{5}$ 3) GCF = 15, $\frac{1}{3}$ 4) GCF = 7, $\frac{1}{4}$ 1) $3\frac{7}{10}$ 2) $10\frac{3}{4}$ 3) $6\frac{5}{6}$ 4) $4\frac{7}{8}$ The harp and the goose will both produce on the same day after 28 days. 28 is the lowest common multiple of 4 and 7.
B-11		
	Concept	$1)\frac{4}{14},\frac{6}{21},\frac{8}{28},\frac{10}{35}2)\frac{8}{18},\frac{12}{27},\frac{16}{36},\frac{20}{45} 3)\frac{6}{20},\frac{9}{30},\frac{12}{40},\frac{15}{50} 4)\frac{6}{10},\frac{9}{15},\frac{12}{20},\frac{15}{25} 5)\frac{2}{3} 6)\frac{3}{4}$ $7)\frac{4}{7} 8)\frac{1}{2}$
D 13	Operations Drill	1) $\frac{11}{12}$ 2) $1\frac{5}{16}$ 3) $1\frac{4}{15}$ 4) $1\frac{4}{11}$ There will be 24 guests at the party. Kousika's mother has bought enough party favors for this many people. 2 packages of 12 balloons is 24 balloons, 3 packages of 8 hats is 24 hats, and 8 packages of 3 rings is 24 rings.
D-12	Concept	$1)\frac{10}{24},\frac{15}{36},\frac{20}{48},\frac{25}{60} 2)\frac{10}{12},\frac{15}{18},\frac{20}{24},\frac{25}{30}, 3)\frac{6}{26},\frac{9}{39},\frac{12}{52},\frac{15}{65} 4)\frac{6}{34},\frac{9}{51},\frac{12}{68},\frac{15}{85} 5)\frac{1}{4} \qquad 6)\frac{3}{11}$ $7)\frac{2}{3} \qquad 8)\frac{3}{4}$
	Operati	ons 1) $1\frac{5}{8}$ 2) $2\frac{1}{5}$ 3) $1\frac{4}{7}$ 4) $1\frac{4}{10}$
	Drill	Mary, Jack and Prince Charming would all take their animals to the field on the same day after 30 days. 30 is the lowest common multiple of 3, 5, and 2.

Addition and Subtraction With Unlike Denominators

C-1

Operations $1)\frac{7}{12}$ $2)\frac{1}{10}$ DrillSara has filled her bag the most with $\frac{4}{5}$ or $\frac{8}{10}$

C-2

 Operations
 1) $\frac{3}{4}$ 2) $\frac{3}{16}$ 3) $1 \frac{4}{15}$ 4) $1 \frac{4}{9}$

 Drill
 13 squares are painted white.

C-3

Concept	1) $100 = 2 \cdot 2 \cdot 2$	5·5	2) $54 = 2 \cdot 3 \cdot 3 \cdot 3$	$3) 64 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$
	4) $108 = 2 \cdot 2 \cdot 2$	3 · 3 · 3		
Operations	1) $1\frac{2}{5}$ 2) $\frac{1}{6}$	3) $\frac{4}{15}$	4) $\frac{2}{3}$	
Drill	Monday, becaus	e they bo	oth swim $\frac{1}{3}$ of their total ar	ount of laps on that day.

C-4

Concept	1) $350 = 2 \cdot 5 \cdot 5 \cdot 7$	2) $180 = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5$	3) $42 = 2 \cdot 3 \cdot 7$
	$4) 90 = 2 \cdot 3 \cdot 3 \cdot 5$	5) 99 = 3 · 3 · 11	
Operations	1) $\frac{2}{3}$ 2) $1\frac{7}{15}$ 3) $\frac{7}{12}$	4) $\frac{11}{42}$	
Drill	Alex is correct. Alex ate $\frac{5}{8}$	of his pizza, which is $\frac{15}{24}$. Ju	stin only ate $\frac{6}{12}$ of his pizza, which is
	less than $\frac{12}{24}$.		

C-5

Concept	1) 1296		2) 3125		3) 81		4) 256
Operations	1) $\frac{16}{35}$	2) $\frac{1}{30}$	3) $\frac{13}{14}$	4) 1 <u>1</u> 33			
Drill	Caitlin re	ead $\frac{1}{8}$ of t	he book	on the 4 ^{tl}	h day. $\frac{90}{720}$	$=\frac{1}{8}$	

C-6

 Concept
 1) $84 = 2 \cdot 2 \cdot 3 \cdot 7 = 2^2 \cdot 3 \cdot 7$ 2) $120 = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5 = 2^3 \cdot 3 \cdot 5$

 3) $60 = 2 \cdot 2 \cdot 3 \cdot 5 = 2^2 \cdot 3 \cdot 5$ 4) $50 = 2 \cdot 5 \cdot 5 = 2 \cdot 5^2$

 5) $400 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot 5 = 2^4 \cdot 5^2$ 6) $90 = 2 \cdot 3 \cdot 3 \cdot 5 = 2 \cdot 3^3 \cdot 5$

 Operations
 1) $1\frac{9}{40}$ 2) $\frac{5}{12}$ 3) $\frac{1}{12}$ 4) $\frac{9}{9} = 1$

 Drill
 Suzie found the lowest common multiple of all the fraction denominators to be 24.

 She converted each fraction so that 24 was in the denominator, and put them in the order of $\frac{1}{4}$, $\frac{8}{24}$, $\frac{3}{6}$, $\frac{2}{3}$, $\frac{3}{4}$.

C-8

C-9

Concept	1) $500 = 2 \cdot 2 \cdot 5 \cdot 5 \cdot 5 = 2^2 \cdot 5^3$ 2) $200 = 2 \cdot 2 \cdot 2 \cdot 5 \cdot 5 = 2^3 \cdot 5^2$
	3) $1323 = 3 \cdot 3 \cdot 3 \cdot 7 \cdot 7 = 3^3 \cdot 7^2$ 4) $224 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 7 = 2^5 \cdot 7$
	5) $2025 = 3 \cdot 3 \cdot 3 \cdot 3 \cdot 5 \cdot 5 = 3^4 \cdot 5^2$
Operations	1) $1\frac{11}{21}$ 2) $1\frac{1}{3}$ 3) $\frac{1}{4}$ 4) $\frac{1}{4}$
Drill	$\frac{7}{8} + \frac{3}{4} + \frac{3}{4} = \frac{19}{8} = 2\frac{3}{8}$ cups of dry ingredients
Operations	1) $1\frac{3}{2}$ 2) $\frac{1}{2}$ 3) $\frac{1}{2}$ 4) $1\frac{29}{2}$
o poi caiono	10^{-1} 12^{-1} 5^{-1} 55^{-1}
Drill	Simon will need to order flower tomorrow. He used 16 bags on the first day, 16 bags on
	the 2 ^m day, and should use 16 bags tomorrow. He will then only have 8 bags left, and
	will probably need 16 bags, therefore he should order flower tomorrow.
Concept	1) 54 2) 180 3) 140 4) 240 5) 60 6) 56
Operations	1) $\frac{1}{2}$ 2) 1 3) 4 4) 3
Drill	Cinderella is correct. $\frac{3}{2}$ of 36 is 27. They both have 27 dances.
	4

C-10

Concept	1) 135	2) 64	3) 231	4) 96	5) 990	6) 910
Operations	1) 1	2) 1	3) 5	4)5		
Drill	Chris lives higher up. Matthew lives on the 20 th floor, which is $\frac{8}{10}$ the full height of the					
	building	. Chris liv	es at $\frac{9}{10}$, s	o he is hi	igher.	

Multiplication of Fractions

D-1

D-2

D-3

D-4

D-5

D-6

Concept	10 times; This is because the probability of the spinner landing on green is 1 in 3. Therefore, the same probability can be extrapolated to be 10 times in 30.						
Operations	1) $\frac{2}{3}$ 2) $\frac{4}{5}$ 3) $\frac{1}{2}$ 4) $\frac{2}{3}$						
Drill	$\frac{2}{5} + \frac{1}{2} = \frac{9}{10}$ of a cup of flour.						
Concept	the probability of rolling an odd number each time you roll the dice is 3 in 6 (or 1 in 2). If you roll the dice 36 times, the probability of rolling an odd number is 18 in 36.						
Operations	1) $1\frac{3}{5}$ 2) $2\frac{1}{2}$ 3) 2 4) $1\frac{1}{7}$						
Drill	No, Miles has more than a full bin's worth of trash. $\frac{2}{6} + \frac{3}{4} = \frac{4}{12} + \frac{9}{12} = \frac{13}{12} = 1\frac{1}{12}$						
Concept	Yes, the game is fair, because there is a $\frac{2}{6}$ or $\frac{1}{3}$ chance both for rolling above a 4 or below a 3.						
Operations	1) $\frac{1}{8}$ 2) $\frac{1}{15}$						
Drill	Sasha has $\frac{16}{36}$ or $\frac{4}{9}$ of the whole box left.						
Concept	1) 1 in 2 2) 2 in 4 3) 6 in 36 4) 1 in 52						
Operations	1) $\frac{1}{48}$ 2) $\frac{1}{30}$ 3) $\frac{1}{12}$ 4) $\frac{3}{16}$						
Drill	There were 3 tissues in the trash.						
Concept	5 times out of 40 the spinner should land on 5.						
Operations	1) $\frac{1}{10}$ 2) $\frac{1}{9}$ 3) $\frac{1}{4}$ 4) $\frac{4}{21}$ 5) $\frac{9}{40}$ 6) $\frac{1}{6}$						
Drill	28 license plates are from Texas						
Concept	$\frac{1}{2}, \frac{1}{2}, \frac{1}{4}$						
Operations	1) $\frac{2}{7}$ 2) $\frac{5}{18}$ 3) $\frac{4}{15}$ 4) $\frac{7}{32}$ 5) $\frac{7}{12}$ 6) $\frac{9}{16}$						
Drill	$\frac{3}{8}$ of a yard.						

D-7

Operations
$$1)\frac{3}{10}$$
 $2)\frac{2}{3}$ $3)\frac{1}{2}$ $4)\frac{4}{7}$ $5)\frac{3}{10}$ $6)\frac{1}{3}$
Drill $\frac{4}{5} + \frac{3}{4} = \frac{16}{20} + \frac{15}{20} = \frac{31}{20} = 1\frac{11}{20}$ miles

D-8

Concept
$$\frac{2}{8} = \frac{1}{4}$$
 a) $\frac{1}{4}$ b) $\frac{1}{2}$ c) $\frac{1}{4}$ Operations $1) \frac{4}{25}$ 2) $\frac{1}{6}$ 3) $\frac{1}{8}$ 4) 1 5) $1\frac{1}{8}$ 6) $\frac{1}{2}$ Drill $\frac{6}{8} + \frac{1}{3} = \frac{18}{24} + \frac{8}{24} = 1\frac{2}{24} = 1\frac{1}{12}$ of a yard of fabric.

D-9

Concept	$0, 1, \frac{1}{6},$	$\frac{1}{2}$				
Operations	1) $\frac{1}{3}$	2) $1\frac{7}{8}$	3) 3 5	4) $\frac{3}{7}$	5) 1	6) 1 1 /2
Drill	$5\frac{1}{3}$ of a	a foot of s	now.			

D-10

Concept	you shou	uld draw	a yellow	cube 20	times, a k	olue cube 4 times, a pink cube 16 times and
	a green o	cube 0 ti	mes.			
Operations	1) 1	2) 1	3) 1	4) 1	5) 1	6) 1
Drill	$\frac{6}{10} - \frac{3}{25} =$	$=\frac{60}{100}-\frac{1}{2}$	$\frac{12}{100} = \frac{48}{100}$	$=\frac{12}{25}$ of a	second.	

Division of Fractions

E-1

Operations $1(\frac{2}{9} + 2)\frac{1}{8} = 3(\frac{4}{10})\frac{1}{5} = 4(\frac{1}{6})$ **Drill** $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$

E-2

Concept	1) 4:22, 4/22, $\frac{4}{22}$, The ratio of children to computers is Four to Twenty-two.
	2) 36:9, 36/9, $\frac{36}{9}$, The ratio of legs to cows is thirty-six to nine.
	3) 17:6, 17/6, $\frac{17}{6}$, The ratio of pencils to erasers is seventeen to six.
	4) 15:12, 15/12, $\frac{15}{12}$ The ratio of Geese to Ducks is fifteen to twelve
	5) 26:425, 26/425, $\frac{26}{425}$ The ratio of teachers to students is 26 to 425.
Operations	1) $\frac{1}{5}$ 2) $\frac{1}{9}$ 3) $\frac{1}{8}$ 4) $\frac{3}{8}$
Drill	$\frac{4}{12}$ or $\frac{1}{3}$

E-3

Concept	1) 11:4, 11/4, 11	2) 5:2, 5/2, 5 2
Drill	<u>1</u> 5	

E-4

Concept	There are 18 cars for the 36 students; which means that for every car, there are 2
	students.
Operations	1) $1\frac{1}{5}$ 2) $\frac{3}{8}$ 3) $\frac{3}{4}$ 4) $\frac{2}{3}$ 5) $\frac{3}{4}$ 6) $\frac{2}{5}$
Drill	$\frac{1}{2} \cdot \frac{2}{8} = \frac{2}{16} = \frac{1}{8}$ of the report is filled with typing.

E-5

Concept	There are 3 egg	gs for eve	ry persor	ı.	
	There are two t	oddlers f	or every	toy.	
	There are 3 footballs for every class.				
	There are 5 homeworks for every 7 days.				
	There are 4 sandwiches for each player.				
Operations	1) $1\frac{1}{3}$ 2) $\frac{3}{7}$	3) 8 9	4) $\frac{4}{5}$	5) 1 1 5	6) $\frac{1}{2}$
Drill	$\frac{5}{6} \cdot \frac{3}{4} = \frac{15}{24} = \frac{5}{8}$	of a mile.			

ConceptThere are 21 flower stickers and 15 heart stickers.Operations $1)\frac{1}{2}$ $2)\frac{4}{7}$ $3)\frac{4}{9}$ $4)\frac{3}{5}$ $5)\frac{3}{10}$ $6)\frac{4}{5}$ DrillNo, it is just a coincidence.

E-7

Concept	12 fig trees and 4	1 apple tr	ees			
Operations	1) $\frac{3}{4}$	2) 4	3) $1\frac{3}{4}$	4) <u>15</u> 16	5) 1 1 5	6) 1 13 14
Drill	$\frac{2}{3} \cdot \frac{5}{8} = \frac{10}{24} = \frac{5}{12}$	of a mete	r long			

E-8

Concept	9 blac	9 black shirts and 6 grey shirts				
Operations	1) $\frac{1}{3}$	2) <u>16</u> 21	3) 6	4) 1 ¹ / ₈	5) <u>14</u> 15	6) <u>8</u> 21
Drill	He car	He can expect to win 250 times.				

E-6

Operations With Mixed Fractions

F-1

 Concept
 54, 81, 108, 137, 162, 189

 Drill
 Connie originally put 80 pizzas in the oven.

F-2

64

- Operations Drill

Concept

Hours: 1, 2, 3, 4, 5, 6, 7, 8, 9, 1) $\frac{11}{6}$ 2) $\frac{38}{7}$ 3) $\frac{11}{3}$ 4) $\frac{32}{12}$ 20 people.

Dollars: 9, 18, 27, 36, 45, 54, 63, 72, 81

Dollars: 8, 16, 24, 32, 40, 48, 56,64 Pounds: 1, 2, 3, 4, 5, 6, 7, 8,

F-3

Concept	$2 \cdot 27 = 54$ $3 \cdot 18 = 54$
Operations	$1)\frac{22}{5} 2)\frac{31}{9} 3)\frac{25}{3} 4)\frac{67}{10}$
Drill	There are 16 total members on the team. 8 are good butterfly swimmers, 4 are good
	breast stroke swimmers, 2 like free-style swimming and 2 are coaches.

F-4

Concept	1) =	2) ≠	3) ≠	4) =	5) =	6) ≠				
Operations	1) $\frac{1}{2}$	2) 9 3		3) 1 ² / ₅						
Drill	576 to	tal applic	ants. 288	8 from US,	, 144 fror	n China,	72 from .	Japan, 36	from Fra	nce, 18
	from A	ustralia, a	and 18 fr	om South	America	э.				

F-5

Concept	1) 1	2) 9	3) 2	4) 4	5) 10	6) 3
Operations	1) 6 4 25	2) ²¹ 33	3)25 <u>1</u> 2			
Drill	Each gua	ard receiv	$\frac{1}{6}$ of t	he bag.		

F-6

Operations
 1)
$$\frac{21}{25}$$
 2) $3\frac{51}{63}$
 3) $\frac{4}{21}$
 4) $\frac{45}{192}$

 Drill
 Each had $\frac{2}{9}$ of the pizza.

F-7

Concept	\$89,090.91
Operations	1) $2\frac{1}{24}$ 2) $2\frac{58}{91}$ 3) $34\frac{7}{27}$
Drill	24 cans of dark blue, 40 cans of firehouse red, 16 cans of beige.

F-8

Concept	The lower end should be $\frac{37}{16}$ of an inch $2\frac{5}{16}$ lower than the starting point.
Operations	1) $16\frac{7}{8}$ 2) $\frac{24}{35}$ 3) $10\frac{8}{15}$
Drill	Each charity received $\frac{1}{9}$ of the original collection.

F-9

Concept	The picture will be $6\frac{3}{10}$ inches tall.
Operations	1) $6\frac{11}{32}$ 2) $3\frac{1}{25}$ 3) $7\frac{2}{9}$
Drill	Cinderella used $\frac{1}{12}$ the amount of her original time to do each of the last three activities.

F-10

Concept	The Total population of deer should be 1,728 deer.
Operations	1) $5\frac{17}{56}$ 2) $1\frac{11}{63}$ 3) $5\frac{1}{3}$
Drill	80 chairs in total. 40 in the parent section, 20 in the children section, 10 in the teacher's
	section and 10 for the choral-club.

Simplifying With the Multiplicative Identity

G-1

Drill

The cost for 400 shirts will be \$666.67.

G-2

Dallas to Fort Worth is approximately 35 miles. Fort Worth to Waco is approximately 85 miles. Waco to Houston is approximately 185 miles.

Operations Drill

 $1)\frac{1}{6}$

Concept

2)
$$\frac{5}{24}$$
 3) $1\frac{5}{7}$ 4) $\frac{7}{11}$



G-3

Concept	4200 feet long, 746 feet high			
Operations	1) $\frac{1}{24}$	2) $\frac{1}{2}$	3) $\frac{2}{5}$	4) $1\frac{2}{3}$
Drill	Baker sh	ould ord	er 48 pou	inds of apples

G-4

Operations	1) $\frac{1}{3}$	2)	3) 2 ² / ₃	4) 1
Drill	Jill picked 30 peaches.			

G-5

ConceptNo, Travis should use proportions to scale down the picture. Not subtraction. The poster
should actually be 1.5 feet long.Operations1) $6\frac{9}{16}$ 2) 13) 8DrillImage: Concept Should actually be 1.5 feet long.



G-6

 Concept
 1.875 miles

 Operations
 1) $\frac{2}{5}$ 2) $2\frac{7}{9}$ 3) $2\frac{2}{9}$

 Drill
 Concept
 Concept



Finish



G-8



Concept	Scale factor is 8: 1 or $\frac{8}{1}$
Operations	1) $1\frac{17}{22}$ 2) $5\frac{7}{10}$ 3) $\frac{1}{2}$
Drill	They would throw away 250 light bulbs a day.