Key: Wk 1

Add and Subtract (A) Answers

Find each sum or difference.

3	9	13	1	10	2	4	6	9	7
+2	+6	-8	+1	-7	+4	+8	+6	+5	-6
5	15	5	2	3	6	12	12	14	1
1	9	1	3	1	8	7	6	13	12
+5	+4	+2	+6	+7	+5	+7	+8	-6	-8
6	13	3	9	8	13	14	14	7	4
15	9	3	9	8	6	9	12	1	5
-6	-5	-2	-3	-6	+9	+5	-5	+5	+9
9	4	1	6	2	15	14	7	6	14
17	11	4	3	9	10	4	6	6	5
-9	-6	+2	-2	-5	-5	+7	-2	-1	+4
8	5	6	1	4	5	11	4	5	9
8	1	17	4	7	9	5	14	12	2
+3	+6	-9	+2	+8	-7	+5	-5	-6	+1
11	7	8	6	15	2	10	9	6	3
11	8	5	5	1	15	2	8	14	15
-6	+4	-1	+2	+9	-7	+2	+8	-6	-8
5	12	4	7	10	8	4	16	8	7
6	3	6	9	3	7	7	8	6	1
+4	+2	+4	-6	+1	+4	+4	-4	+9	+9
10	5	10	3	4	11	11	4	15	10
3	3	8	14	4	11	8	7	13	17
+3	-1	+3	-9	-3	-2	+7	-3	-5	-8
6	2	11	5	1	9	15	4	8	9
2	14	7	6	5	1	3	5	15	4
+3	-7	-5	-2	+1	+8	+8	-1	-9	+8
5	7	2	4	6	9	11	4	6	12
1	7	4	6	9	2	1	8	11	14
+1	+3	+8	+1	+9	+3	+1	+3	-9	-9
2	10	12	7	18	5	2	11	2	5

key: wk 1

Adding and Subtracting Fractions (A) Answers

Find the value of each expression in lowest terms.

1. $\frac{7}{4} - \frac{8}{5}$
$= \frac{3}{20}$

2. $\frac{23}{2} + \frac{9}{4}$
$= \frac{55}{4} = 13\frac{3}{4}$

3. $\frac{8}{3} - \frac{3}{2}$
$= \frac{7}{6} = 1\frac{1}{6}$

4. $\frac{5}{2} - \frac{13}{12}$
$= \frac{17}{12} = 1\frac{5}{12}$

5. $\frac{3}{2} - \frac{9}{7}$
$= \frac{3}{14}$

6. $\frac{7}{10} + \frac{2}{5}$
$= \frac{11}{10} = 1\frac{1}{10}$

7. $\frac{14}{5} - \frac{4}{3}$
$= \frac{22}{15} = 1\frac{7}{15}$

8. $\frac{17}{7} - \frac{5}{3}$
$= \frac{16}{21}$

9. $\frac{4}{3} - \frac{2}{5}$
$= \frac{14}{15}$

10. $\frac{5}{2} + \frac{2}{3}$
$= \frac{19}{6} = 3\frac{1}{6}$

11. $\frac{9}{8} + \frac{5}{6}$
$= \frac{47}{24} = 1\frac{23}{24}$

12. $\frac{9}{7} - \frac{5}{6}$
$= \frac{19}{42}$

key : wk 1

Multiplication Facts to 144 (F) Answers

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Calculate each product.

12 × 8 = 96	11 × 12 = 132	4 × 11 = 44	0 × 0 = 0	11 × 2 = 22	11 × 11 = 121	5 × 10 = 50	3 × 7 = 21	8 × 3 = 24	3 × 2 = 6
4 × 4 = 16	12 × 0 = 0	9 × 7 = 63	3 × 6 = 18	11 × 8 = 88	8 × 8 = 64	2 × 6 = 12	2 × 8 = 16	6 × 8 = 48	12 × 12 = 144
2 × 7 = 14	9 × 9 = 81	1 × 9 = 9	7 × 6 = 42	5 × 2 = 10	3 × 5 = 15	5 × 5 = 25	9 × 8 = 72	1 × 8 = 8	3 × 12 = 36
11 × 10 = 110	0 × 10 = 0	2 × 0 = 0	5 × 11 = 55	4 × 0 = 0	10 × 8 = 80	1 × 10 = 10	2 × 1 = 2	6 × 1 = 6	10 × 3 = 30
1 × 1 = 1	11 × 7 = 77	6 × 6 = 36	9 × 10 = 90	6 × 5 = 30	7 × 5 = 35	12 × 6 = 72	2 × 2 = 4	4 × 2 = 8	12 × 7 = 84
3 × 11 = 33	9 × 11 = 99	5 × 4 = 20	0 × 11 = 0	4 × 1 = 4	7 × 8 = 56	10 × 10 = 100	12 × 2 = 24	7 × 7 = 49	3 × 9 = 27
9 × 5 = 45	6 × 0 = 0	10 × 6 = 60	9 × 4 = 36	12 × 9 = 108	3 × 3 = 9	12 × 10 = 120	0 × 5 = 0	6 × 9 = 54	5 × 1 = 5
1 × 12 = 12	5 × 8 = 40	7 × 1 = 7	10 × 2 = 20	1 × 11 = 11	10 × 4 = 40	6 × 11 = 66	6 × 4 = 24	2 × 9 = 18	12 × 5 = 60
1 × 0 = 0	4 × 3 = 12	7 × 4 = 28	10 × 7 = 70	0 × 7 = 0	4 × 8 = 32	0 × 8 = 0	4 × 12 = 48	1 × 3 = 3	3 × 0 = 0
0 × 9 = 0	11 × 4 = 44	4 × 10 = 40	2 × 4 = 8	11 × 9 = 99	5 × 2 = 10	7 × 7 = 49	2 × 8 = 16	2 × 7 = 14	5 × 9 = 45

key wk 1

Multiplying and Dividing Fractions (A) Answers

Find the value of each expression in lowest terms.

1. $\frac{1}{2} \times \frac{5}{4} = \frac{5}{8}$

2. $\frac{1}{6} \div \frac{8}{11} = \frac{11}{48}$

3. $\frac{1}{3} \div \frac{13}{9} = \frac{3}{13}$

4. $\frac{13}{4} \div \frac{1}{2} = \frac{13}{2} = 6\frac{1}{2}$

5. $\frac{17}{6} \div \frac{3}{5} = \frac{85}{18} = 4\frac{13}{18}$

6. $\frac{1}{4} \times \frac{5}{3} = \frac{5}{12}$

7. $\frac{11}{2} \div \frac{1}{2} = 11$

8. $\frac{4}{3} \div \frac{11}{12} = \frac{16}{11} = 1\frac{5}{11}$

9. $\frac{1}{3} \times \frac{20}{9} = \frac{20}{27}$

10. $\frac{13}{7} \times \frac{14}{11} = \frac{26}{11} = 2\frac{4}{11}$

11. $\frac{10}{3} \times \frac{11}{6} = \frac{55}{9} = 6\frac{1}{9}$

12. $\frac{1}{2} \div \frac{1}{2} = 1$

13. $\frac{14}{9} \times \frac{7}{10} = \frac{49}{45} = 1\frac{4}{45}$

14. $\frac{15}{8} \times \frac{7}{6} = \frac{35}{16} = 2\frac{3}{16}$

15. $\frac{3}{2} \div \frac{4}{9} = \frac{27}{8} = 3\frac{3}{8}$

key: wk 1

Division Facts (A) Answers

Find each quotient.

$54 \div 6 = 9$	$32 \div 8 = 4$	$12 \div 3 = 4$	$15 \div 3 = 5$
$24 \div 3 = 8$	$40 \div 8 = 5$	$9 \div 3 = 3$	$24 \div 4 = 6$
$9 \div 1 = 9$	$6 \div 6 = 1$	$7 \div 1 = 7$	$5 \div 5 = 1$
$12 \div 6 = 2$	$28 \div 4 = 7$	$14 \div 2 = 7$	$54 \div 9 = 6$
$10 \div 5 = 2$	$56 \div 8 = 7$	$6 \div 1 = 6$	$7 \div 7 = 1$
$35 \div 7 = 5$	$27 \div 3 = 9$	$3 \div 1 = 3$	$16 \div 8 = 2$
$63 \div 7 = 9$	$4 \div 2 = 2$	$20 \div 5 = 4$	$40 \div 5 = 8$
$3 \div 3 = 1$	$42 \div 7 = 6$	$21 \div 7 = 3$	$6 \div 3 = 2$
$18 \div 3 = 6$	$45 \div 5 = 9$	$14 \div 7 = 2$	$36 \div 4 = 9$
$49 \div 7 = 7$	$56 \div 7 = 8$	$30 \div 5 = 6$	$28 \div 7 = 4$
$30 \div 6 = 5$	$25 \div 5 = 5$	$5 \div 1 = 5$	$8 \div 8 = 1$
$2 \div 1 = 2$	$72 \div 8 = 9$	$24 \div 6 = 4$	$48 \div 8 = 6$
$42 \div 6 = 7$	$18 \div 6 = 3$	$24 \div 8 = 3$	$21 \div 3 = 7$
$6 \div 2 = 3$	$12 \div 4 = 3$	$4 \div 4 = 1$	$15 \div 5 = 3$
$1 \div 1 = 1$	$64 \div 8 = 8$	$45 \div 9 = 5$	$8 \div 2 = 4$
$35 \div 5 = 7$	$36 \div 6 = 6$	$48 \div 6 = 8$	$10 \div 2 = 5$
$16 \div 4 = 4$	$20 \div 4 = 5$	$4 \div 1 = 4$	$8 \div 1 = 8$
$8 \div 4 = 2$	$16 \div 2 = 8$	$32 \div 4 = 8$	$63 \div 9 = 7$
$81 \div 9 = 9$	$36 \div 9 = 4$	$18 \div 2 = 9$	$72 \div 9 = 8$
$18 \div 9 = 2$	$2 \div 2 = 1$	$12 \div 2 = 6$	$9 \div 9 = 1$
$27 \div 9 = 3$	$18 \div 6 = 3$	$9 \div 3 = 3$	$54 \div 9 = 6$
$40 \div 5 = 8$	$24 \div 8 = 3$	$27 \div 9 = 3$	$72 \div 8 = 9$
$56 \div 8 = 7$	$2 \div 1 = 2$	$8 \div 8 = 1$	$12 \div 3 = 4$
$4 \div 1 = 4$	$20 \div 5 = 4$	$15 \div 5 = 3$	$10 \div 2 = 5$
$45 \div 5 = 9$	$16 \div 8 = 2$	$32 \div 4 = 8$	$18 \div 9 = 2$

Key : wk 1

Operations with Fractions (A) Answers

Calculate the answer to each question.

1. $\frac{7}{3} \times \frac{13}{8}$
$\frac{91}{24}$

2. $\frac{9}{8} + \frac{5}{7}$
$\frac{103}{56}$

3. $\frac{9}{3} - \frac{1}{6}$
$\frac{17}{6}$

4. $\frac{23}{14} + \frac{20}{19}$
$\frac{717}{266}$

5. $\frac{20}{5} - \frac{15}{14}$
$\frac{41}{14}$

6. $\frac{5}{11} \div \frac{26}{11}$
$\frac{5}{26}$

7. $\frac{1}{7} \times \frac{29}{18}$
$\frac{29}{126}$

8. $\frac{43}{19} \div \frac{2}{3}$
$\frac{129}{38}$

9. $\frac{37}{7} - \frac{5}{2}$
$\frac{39}{14}$

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

Key: WKL

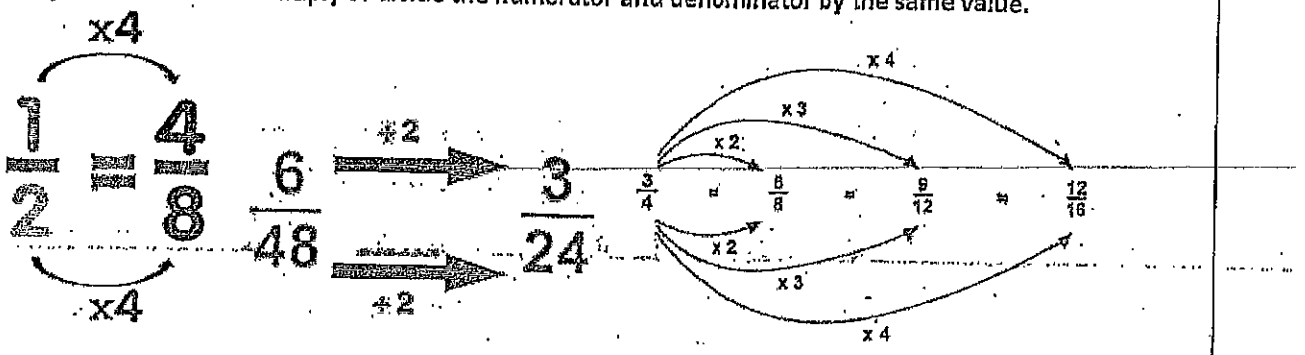
All Operations (A) Answers

Find each sum, difference, product, or quotient.

14	14	3	12	5	24	9	8	63	2
- 11	- 8	+ 11	- 4	- 3	÷ 6	- 1	× 12	÷ 9	× 12
3	6	14	8	2	4	8	96	7	24
5	4	66	4	8	11	12	84	7	13
+ 9	÷ 4	÷ 11	+ 11	÷ 2	- 5	× 5	÷ 12	× 7	- 2
14	1	6	15	4	6	60	7	49	11
1	77	2	10	10	24	19	9	5	22
× 4	÷ 7	× 2	× 10	× 6	÷ 4	- 10	+ 9	× 8	- 11
4	11	4	100	60	6	9	18	40	11
16	2	2	11	14	19	8	7	6	19
- 9	+ 3	÷ 1	- 7	- 7	- 12	+ 5	+ 3	÷ 2	- 10
7	5	2	4	7	7	13	10	3	9
36	8	7	7	7	7	4	12	8	5
÷ 12	- 7	+ 2	- 4	× 9	× 1	+ 1	× 5	+ 5	+ 12
3	1	9	3	63	7	5	60	13	17
2	16	7	3	5	3	36	7	22	4
+ 11	÷ 8	+ 1	+ 5	+ 2	+ 8	÷ 4	× 12	- 11	+ 9
13	2	8	8	7	11	9	84	11	13
16	9	10	18	17	12	9	6	3	5
÷ 4	+ 3	- 6	÷ 9	- 11	÷ 6	- 6	+ 3	+ 8	+ 11
4	12	4	2	6	2	3	9	11	16
2	10	8	5	10	1	11	9	60	9
+ 6	- 8	÷ 8	+ 2	× 8	+ 11	- 10	+ 4	÷ 10	- 2
8	2	1	7	80	12	1	13	6	7
11	30	6	14	8	16	9	23	10	6
+ 9	÷ 5	+ 8	- 7	+ 10	- 6	+ 11	- 12	× 1	+ 7
20	6	14	7	18	10	20	11	10	13
49	9	12	10	8	4	3	18	2	2
÷ 7	+ 9	+ 10	- 8	× 4	× 7	× 6	- 7	+ 2	+ 12
7	18	22	2	32	28	18	11	4	14

Equivalent Fractions

To find an equivalent fraction multiply or divide the numerator and denominator by the same value.



Name three equivalent fractions to the one given: ★Answers may vary!

1. $\frac{4}{5}$ $\frac{8}{10}$, $\frac{12}{15}$, $\frac{16}{20}$, $\frac{20}{25}$, $\frac{40}{50}$ etc.

2. $\frac{10}{15}$ $\frac{20}{30}$, $\frac{30}{45}$, $\frac{40}{60}$, $\frac{50}{75}$, $\frac{60}{90}$ etc.

3. $\frac{1}{7}$ $\frac{2}{14}$, $\frac{3}{21}$, $\frac{4}{28}$, $\frac{5}{35}$, $\frac{6}{42}$, $\frac{10}{70}$ etc.

4. $\frac{16}{40}$ $\frac{4}{10}$, $\frac{2}{5}$, $\frac{8}{20}$, $\frac{32}{80}$ $\frac{48}{120}$ etc

5. $\frac{12}{30}$ $\frac{4}{10}$, $\frac{2}{5}$, $\frac{6}{15}$, $\frac{24}{60}$, $\frac{36}{90}$, $\frac{48}{120}$ etc.

6. $\frac{6}{8}$ $\frac{3}{4}$, $\frac{12}{16}$, $\frac{18}{24}$, $\frac{24}{32}$, $\frac{30}{40}$ etc.

Week 2 Key

Add and Subtract (B) Answers

Find each sum or difference.

9	15	12	8	16	6	3	5	4	5
+2	-6	-8	+9	-7	+5	+3	+6	+6	+9
11	9	4	17	9	11	6	11	10	14
7	6	6	3	7	1	4	9	4	9
-4	-1	+7	+4	+2	+7	+4	-4	+8	-2
3	5	13	7	9	8	8	5	12	7
12	2	9	11	6	5	5	9	8	9
-5	+9	-1	-7	+6	+6	-1	+1	+7	-2
7	11	8	4	12	11	4	10	15	7
14	9	13	10	8	9	11	8	8	6
-6	-1	-5	-2	-1	+6	-4	-6	+7	+3
8	8	8	8	7	15	7	2	15	9
6	6	17	2	5	7	11	8	6	6
+1	+4	-9	+6	+7	-2	-4	-1	+9	+7
7	10	8	8	12	5	7	7	15	13
12	6	11	9	7	7	8	9	15	2
-7	-5	-2	+3	+2	+8	+4	-1	-8	+4
5	1	9	12	9	15	12	8	7	6
1	18	6	10	6	11	9	3	2	17
+7	-9	+9	-2	+3	-6	-7	+2	+2	-9
8	9	15	8	9	5	2	5	4	8
14	9	16	2	2	3	7	7	6	16
-6	-6	-8	+6	+1	+6	-3	-2	-3	-8
8	3	8	8	3	9	4	5	3	8
9	4	3	11	1	12	9	13	16	2
-8	+8	-2	-9	+5	-6	-8	-8	-8	+5
1	12	1	2	6	6	1	5	8	7
7	8	9	7	10	7	11	3	8	5
+5	+6	+6	-2	-6	+6	-3	+2	-5	+4
12	14	15	5	4	13	8	5	3	9

Week 2 key

ANSWER KEY

Decimal Addition

Rewrite each problem vertically, and solve.

a. 1.42 + 2.157 = 3.577	b. 3.918 + 9.2 = 13.118	c. 31.908 + 0.054 = 31.962
d. 72 + 8.039 = 80.039	e. 23.102 + 231.2 = 254.302	f. 87.64 + 0.36 = 88
g. 19.005 + 7.446 = 26.451	h. 288 + 331.148 = 619.148	i. 134.705 + 19.5 = 154.205
j. 8.108 + 136.8 = 144.908	k. 100.006 + 23.45 = 123.456	l. 877.909 + 359.5 = 1,237.409

Week 2 key

Multiplication Facts to 144 (E) Answers

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Calculate each product.

7 × 3 = 21	12 × 3 = 36	7 × 9 = 63	12 × 6 = 72	1 × 6 = 6	2 × 11 = 22	1 × 1 = 1	12 × 8 = 96	2 × 6 = 12	1 × 11 = 11
6 × 10 = 60	6 × 3 = 18	2 × 12 = 24	3 × 3 = 9	9 × 10 = 90	9 × 8 = 72	9 × 12 = 108	12 × 12 = 144	0 × 3 = 0	4 × 9 = 36
12 × 10 = 120	3 × 2 = 6	10 × 3 = 30	2 × 1 = 2	5 × 9 = 45	5 × 2 = 10	5 × 3 = 15	11 × 0 = 0	4 × 4 = 16	10 × 5 = 50
0 × 0 = 0	1 × 10 = 10	3 × 4 = 12	6 × 8 = 48	5 × 12 = 60	0 × 6 = 0	7 × 5 = 35	8 × 3 = 24	9 × 1 = 9	10 × 0 = 0
10 × 10 = 100	7 × 7 = 49	6 × 7 = 42	10 × 4 = 40	8 × 11 = 88	0 × 4 = 0	10 × 7 = 70	11 × 4 = 44	11 × 3 = 33	6 × 5 = 30
0 × 9 = 0	5 × 8 = 40	1 × 7 = 7	1 × 4 = 4	2 × 0 = 0	2 × 9 = 18	9 × 11 = 99	11 × 6 = 66	10 × 11 = 110	5 × 5 = 25
7 × 12 = 84	12 × 0 = 0	9 × 9 = 81	7 × 8 = 56	2 × 4 = 8	3 × 1 = 3	2 × 7 = 14	1 × 8 = 8	9 × 3 = 27	4 × 12 = 48
1 × 0 = 0	5 × 11 = 55	6 × 6 = 36	11 × 12 = 132	4 × 7 = 28	9 × 6 = 54	8 × 8 = 64	8 × 0 = 0	11 × 7 = 77	8 × 10 = 80
11 × 11 = 121	7 × 0 = 0	5 × 1 = 5	8 × 4 = 32	12 × 1 = 12	4 × 6 = 24	10 × 2 = 20	2 × 2 = 4	2 × 8 = 16	5 × 4 = 20
0 × 5 = 0	7 × 4 = 28	12 × 2 = 24	4 × 8 = 32	11 × 1 = 11	2 × 4 = 8	10 × 8 = 80	6 × 7 = 42	9 × 8 = 72	9 × 0 = 0

Week 2 key

Subtracting Decimals (A) Answers

Calculate each difference.

$737.303 - 43.866 = 693.437$

$275.6 - 6.9 = 268.7$

$40.333 - 13.86 = 26.473$

$919.241 - 66.6 = 852.641$

$226.125 - 7.05 = 219.075$

$793.280 - 123.93 = 669.35$

$20.59 - 4.368 = 16.222$

$786.264 - 7.01 = 779.254$

$936.82 - 4.62 = 932.2$

$38.844 - 3.4 = 35.444$

Week 2 key

Division Facts (B) Answers

Find each quotient.

$28 \div 4 = 7$	$56 \div 7 = 8$	$6 \div 6 = 1$	$14 \div 2 = 7$
$14 \div 7 = 2$	$36 \div 4 = 9$	$64 \div 8 = 8$	$6 \div 3 = 2$
$10 \div 5 = 2$	$5 \div 1 = 5$	$54 \div 6 = 9$	$32 \div 8 = 4$
$35 \div 5 = 7$	$7 \div 7 = 1$	$48 \div 8 = 6$	$24 \div 6 = 4$
$15 \div 3 = 5$	$40 \div 8 = 5$	$8 \div 2 = 4$	$12 \div 4 = 3$
$9 \div 9 = 1$	$63 \div 9 = 7$	$3 \div 1 = 3$	$21 \div 7 = 3$
$4 \div 2 = 2$	$2 \div 2 = 1$	$7 \div 1 = 7$	$18 \div 2 = 9$
$48 \div 6 = 8$	$49 \div 7 = 7$	$30 \div 5 = 6$	$27 \div 3 = 9$
$6 \div 1 = 6$	$1 \div 1 = 1$	$72 \div 9 = 8$	$12 \div 2 = 6$
$16 \div 4 = 4$	$16 \div 2 = 8$	$12 \div 6 = 2$	$36 \div 9 = 4$
$36 \div 6 = 6$	$24 \div 4 = 6$	$6 \div 2 = 3$	$21 \div 3 = 7$
$30 \div 6 = 5$	$8 \div 1 = 8$	$42 \div 7 = 6$	$25 \div 5 = 5$
$28 \div 7 = 4$	$81 \div 9 = 9$	$35 \div 7 = 5$	$5 \div 5 = 1$
$63 \div 7 = 9$	$45 \div 9 = 5$	$9 \div 1 = 9$	$18 \div 3 = 6$
$20 \div 4 = 5$	$42 \div 6 = 7$	$3 \div 3 = 1$	$24 \div 3 = 8$
$8 \div 4 = 2$	$4 \div 4 = 1$	$1 \div 1 = 1$	$14 \div 2 = 7$
$16 \div 4 = 4$	$18 \div 2 = 9$	$12 \div 4 = 3$	$5 \div 5 = 1$
$24 \div 3 = 8$	$6 \div 6 = 1$	$36 \div 9 = 4$	$48 \div 6 = 8$
$5 \div 1 = 5$	$56 \div 8 = 7$	$6 \div 3 = 2$	$36 \div 4 = 9$
$7 \div 1 = 7$	$42 \div 6 = 7$	$27 \div 3 = 9$	$6 \div 1 = 6$
$3 \div 1 = 3$	$12 \div 2 = 6$	$18 \div 6 = 3$	$12 \div 6 = 2$
$6 \div 2 = 3$	$45 \div 5 = 9$	$15 \div 5 = 3$	$56 \div 7 = 8$
$10 \div 5 = 2$	$16 \div 2 = 8$	$24 \div 4 = 6$	$8 \div 4 = 2$
$8 \div 2 = 4$	$30 \div 5 = 6$	$32 \div 4 = 8$	$42 \div 7 = 6$
$4 \div 4 = 1$	$14 \div 7 = 2$	$15 \div 3 = 5$	$2 \div 1 = 2$

Multiplying and Dividing Decimals

No Calculator! Show all work!

1. 5.4 x 0.07 0.378	2. 5.9 x 1.2 7.08
3. 68.3 x 0.15 10.245	4. 3.96 x 3.3 13.068
5. 9.01 x 0.4 3.604	6. 0.24 ÷ 0.8 0.3
7. 6.56 ÷ 4 1.64	8. 147 ÷ 0.49 300

Key: wk 2

All Operations (B) Answers

Find each sum, difference, product, or quotient.

8	96	4	10	4	10	8	12	6	16
× 12	÷ 12	+ 8	- 5	+ 6	+ 5	- 5	+ 4	× 1	- 6
96	8	12	5	10	15	3	16	6	10
9	45	14	4	15	10	19	8	77	1
+ 9	÷ 9	- 3	+ 5	- 4	× 11	- 7	- 7	÷ 11	+ 7
18	5	11	9	11	110	12	1	7	8
12	1	72	6	6	4	13	3	10	23
- 2	× 8	÷ 12	+ 9	- 4	× 9	- 8	÷ 4	+ 6	- 11
10	8	6	15	2	36	5	7	16	12
22	14	66	6	35	2	10	15	8	3
- 11	- 8	÷ 6	÷ 6	÷ 7	+ 8	× 10	- 4	× 2	+ 10
11	6	11	1	5	10	100	11	16	13
24	17	7	4	8	1	3	9	12	22
÷ 4	- 5	× 7	+ 7	÷ 4	+ 1	+ 6	÷ 9	+ 11	- 11
6	12	49	11	2	2	9	1	23	11
1	6	14	8	3	18	9	3	12	15
+ 7	- 1	- 5	- 4	× 2	÷ 6	÷ 9	× 1	- 4	÷ 5
8	5	9	4	6	3	1	3	8	3
17	40	6	72	2	3	24	3	3	22
- 10	÷ 4	+ 2	÷ 9	× 10	+ 3	÷ 12	× 8	× 4	- 11
7	10	8	8	20	6	2	24	12	11
8	12	6	20	18	9	55	3	12	8
+ 5	+ 9	+ 4	- 9	- 12	- 2	÷ 5	+ 11	- 8	× 5
13	21	10	11	6	7	11	14	4	40
12	10	19	4	3	23	8	12	12	30
- 10	- 5	- 7	× 1	× 11	- 12	× 1	÷ 4	- 8	÷ 3
2	5	12	4	33	11	8	3	4	10
21	13	5	6	12	9	5	11	7	9
÷ 3	- 10	× 6	+ 1	+ 10	- 8	+ 7	+ 4	+ 10	× 2
7	3	30	7	22	1	12	15	17	18

Order Decimals

Exercises: List each group of numbers in order **from least to greatest:**

1.)20, 4, .6, .08

0.08, .6, 4, 20

3.) 1.03, 2.4, .89, .987

.89, .987, 1.03, 2.4

5.) 5.3, 5.12, 5.38, 5.29

5.12, 5.29, 5.3, 5.38

7.) 4, .006, .8, .07

.006, .07, .8, 4

9.) 794, 793.8, 794.65, 794.7

793.8, 794, 794.65, 794.7

11.) 4.2, 4.19, 4.07, 4.3

4.07, 4.19, 4.2, 4.3

Key: wk 3

Add and Subtract (C) Answers

Find each sum or difference.

6	14	4	2	4	10	8	13	16	7
- 4	- 6	+ 5	+ 2	+ 2	- 8	+ 8	- 9	- 8	+ 7
2	8	9	4	6	2	16	4	8	14
7	15	8	3	8	8	8	10	4	4
- 2	- 6	- 4	+ 8	+ 3	- 6	- 2	- 7	+ 9	+ 1
5	9	4	11	11	2	6	3	13	5
8	9	15	14	8	12	7	3	10	4
+ 6	+ 4	- 6	- 9	+ 4	- 9	+ 3	+ 8	- 8	+ 3
14	13	9	5	12	3	10	11	2	7
2	8	6	17	4	11	12	8	3	13
+ 2	+ 4	+ 7	- 8	+ 1	- 9	- 4	+ 6	+ 9	- 7
4	12	13	9	5	2	8	14	12	6
6	2	4	7	6	6	8	1	8	6
- 1	+ 9	+ 3	+ 5	+ 8	+ 8	- 7	+ 6	+ 1	+ 7
5	11	7	12	14	14	1	7	9	13
4	2	11	14	3	11	9	2	9	7
+ 7	+ 3	- 7	- 5	+ 6	- 4	- 1	+ 9	+ 1	+ 3
11	5	4	9	9	7	8	11	10	10
3	8	7	6	10	2	15	6	10	7
+ 4	+ 9	+ 1	- 4	- 6	+ 8	- 6	- 4	- 1	+ 1
7	17	8	2	4	10	9	2	9	8
11	7	8	16	9	8	5	2	6	11
- 7	- 2	+ 6	- 9	+ 7	- 7	+ 8	+ 4	+ 4	- 9
4	5	14	7	16	1	13	6	10	2
14	6	10	7	11	2	18	14	8	10
- 9	+ 7	- 7	- 1	- 7	+ 4	- 9	- 8	- 7	- 5
5	13	3	6	4	6	9	6	1	5
13	6	6	14	4	6	16	17	2	8
- 7	- 2	+ 8	- 6	+ 8	- 2	- 7	- 9	+ 5	+ 6
6	4	14	8	12	4	9	8	7	14

ANSWER KEY

Exponents

Rewrite each expression using exponents.

example: $7 \times 7 \times 7 \times 7 = 7^4$

a. $6 \times 6 \times 6 \times 6 \times 6 = \underline{6^5}$

b. $3 \times 3 \times 3 \times 3 = \underline{3^4}$

c. $2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = \underline{2^7}$

d. $9 \times 9 = \underline{9^2}$

e. $31 \times 31 \times 31 \times 31 \times 31 \times 31 = \underline{31^6}$

f. $14 \times 14 \times 14 = \underline{14^3}$

Rewrite each exponent in expanded form.

example: $5^6 = 5 \times 5 \times 5 \times 5 \times 5 \times 5$

g. $8^4 = \underline{8 \times 8 \times 8 \times 8}$

h. $4^9 = \underline{4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4}$

i. $13^2 = \underline{13 \times 13}$

j. $100^6 = \underline{100 \times 100 \times 100 \times 100 \times 100 \times 100}$

Rewrite each exponent in standard form.

example: $6^3 = 216$

k. 5^2 $\underline{25}$

l. 7^4 $\underline{2,401}$

m. 4^3 $\underline{64}$

n. 9^3 $\underline{729}$

o. 1^{12} $\underline{1}$

p. 2^6 $\underline{64}$

key: wk 3

Division Facts (C) Answers

Find each quotient.

$48 \div 8 = 6$	$9 \div 1 = 9$	$54 \div 6 = 9$	$35 \div 5 = 7$
$20 \div 5 = 4$	$30 \div 6 = 5$	$21 \div 7 = 3$	$18 \div 3 = 6$
$36 \div 6 = 6$	$40 \div 5 = 8$	$16 \div 8 = 2$	$25 \div 5 = 5$
$20 \div 4 = 5$	$63 \div 7 = 9$	$3 \div 3 = 1$	$4 \div 1 = 4$
$28 \div 4 = 7$	$2 \div 2 = 1$	$10 \div 2 = 5$	$24 \div 6 = 4$
$4 \div 2 = 2$	$49 \div 7 = 7$	$7 \div 7 = 1$	$8 \div 8 = 1$
$32 \div 8 = 4$	$35 \div 7 = 5$	$40 \div 8 = 5$	$27 \div 9 = 3$
$72 \div 9 = 8$	$72 \div 8 = 9$	$9 \div 9 = 1$	$28 \div 7 = 4$
$9 \div 3 = 3$	$54 \div 9 = 6$	$8 \div 1 = 8$	$18 \div 9 = 2$
$21 \div 3 = 7$	$12 \div 3 = 4$	$63 \div 9 = 7$	$81 \div 9 = 9$
$24 \div 8 = 3$	$45 \div 9 = 5$	$64 \div 8 = 8$	$42 \div 6 = 7$
$2 \div 1 = 2$	$35 \div 7 = 5$	$56 \div 8 = 7$	$15 \div 3 = 5$
$8 \div 1 = 8$	$14 \div 7 = 2$	$1 \div 1 = 1$	$16 \div 4 = 4$
$25 \div 5 = 5$	$4 \div 2 = 2$	$3 \div 3 = 1$	$72 \div 8 = 9$
$12 \div 6 = 2$	$4 \div 1 = 4$	$28 \div 4 = 7$	$18 \div 6 = 3$
$6 \div 2 = 3$	$40 \div 8 = 5$	$36 \div 6 = 6$	$28 \div 7 = 4$
$3 \div 1 = 3$	$21 \div 3 = 7$	$18 \div 2 = 9$	$81 \div 9 = 9$
$21 \div 7 = 3$	$6 \div 1 = 6$	$8 \div 2 = 4$	$7 \div 7 = 1$
$5 \div 1 = 5$	$14 \div 2 = 7$	$9 \div 9 = 1$	$32 \div 4 = 8$
$42 \div 7 = 6$	$49 \div 7 = 7$	$24 \div 3 = 8$	$8 \div 8 = 1$
$48 \div 8 = 6$	$35 \div 5 = 7$	$64 \div 8 = 8$	$16 \div 2 = 8$
$12 \div 4 = 3$	$2 \div 2 = 1$	$6 \div 6 = 1$	$63 \div 9 = 7$
$10 \div 2 = 5$	$63 \div 7 = 9$	$48 \div 6 = 8$	$40 \div 5 = 8$
$24 \div 8 = 3$	$56 \div 7 = 8$	$7 \div 1 = 7$	$24 \div 6 = 4$
$4 \div 4 = 1$	$15 \div 5 = 3$	$45 \div 9 = 5$	$12 \div 2 = 6$

Prime Factorization

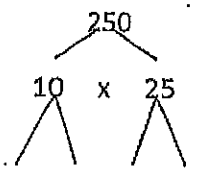
Use Euclid's Ladder (or a factor tree) to write the prime factorization.

$2|60$
$2|30$
$3|15$
5

$60 = 2 \times 2 \times 3 \times 5$

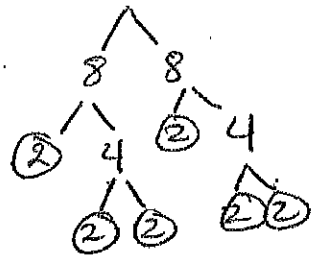
$2|250$
$5|125$
$5|25$
5

$125 = 2 \times 5 \times 5 \times 5$ **OR**



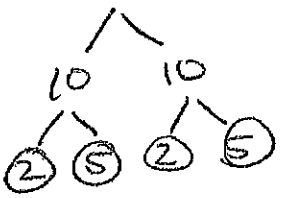
$2 \times 5 \times 5 \times 5$

1. 64



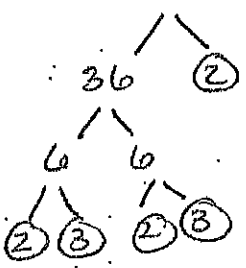
$2 \times 2 \times 2 \times 2 \times 2 \times 2$

2. 100



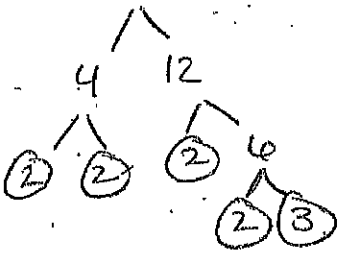
$2 \times 2 \times 5 \times 5$

3. 72



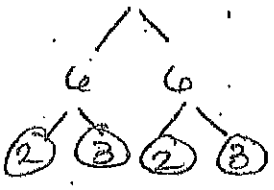
$2 \times 2 \times 2 \times 3 \times 3$

4. 48



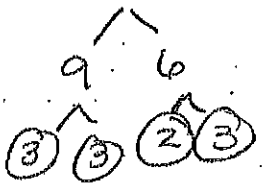
$2 \times 2 \times 2 \times 2 \times 3$

5. 36



$2 \times 2 \times 3 \times 3$

6. 54



$2 \times 3 \times 3 \times 3$

key: wk 3

Multiplication Facts to 144 (D) Answers

Name: _____ Date: _____ Score: ____ /100

Calculate each product.

7 × 1 = 7	7 × 5 = 35	10 × 0 = 0	5 × 8 = 40	10 × 6 = 60	3 × 1 = 3	2 × 7 = 14	0 × 8 = 0	6 × 1 = 6	6 × 5 = 30
3 × 4 = 12	0 × 11 = 0	9 × 11 = 99	4 × 1 = 4	5 × 10 = 50	9 × 10 = 90	5 × 2 = 10	7 × 10 = 70	0 × 5 = 0	2 × 4 = 8
9 × 12 = 108	12 × 10 = 120	5 × 12 = 60	9 × 7 = 63	2 × 2 = 4	0 × 9 = 0	1 × 11 = 11	8 × 6 = 48	2 × 0 = 0	8 × 12 = 96
7 × 0 = 0	10 × 4 = 40	11 × 4 = 44	1 × 2 = 2	3 × 11 = 33	4 × 4 = 16	2 × 6 = 12	0 × 12 = 0	9 × 6 = 54	1 × 9 = 9
9 × 5 = 45	3 × 7 = 21	7 × 7 = 49	5 × 5 = 25	6 × 12 = 72	10 × 1 = 10	10 × 11 = 110	7 × 12 = 84	0 × 0 = 0	6 × 0 = 0
4 × 8 = 32	12 × 1 = 12	3 × 6 = 18	1 × 5 = 5	0 × 4 = 0	0 × 3 = 0	9 × 9 = 81	5 × 11 = 55	8 × 7 = 56	4 × 9 = 36
10 × 8 = 80	4 × 5 = 20	3 × 12 = 36	3 × 10 = 30	11 × 7 = 77	8 × 8 = 64	12 × 11 = 132	6 × 6 = 36	3 × 9 = 27	2 × 3 = 6
10 × 10 = 100	2 × 10 = 20	8 × 1 = 8	1 × 1 = 1	12 × 2 = 24	4 × 7 = 28	11 × 8 = 88	11 × 11 = 121	3 × 5 = 15	8 × 3 = 24
2 × 11 = 22	3 × 3 = 9	6 × 7 = 42	1 × 0 = 0	8 × 2 = 16	8 × 9 = 72	6 × 11 = 66	4 × 6 = 24	12 × 12 = 144	4 × 12 = 48
2 × 9 = 18	0 × 2 = 0	4 × 4 = 16	8 × 8 = 64	1 × 11 = 11	1 × 12 = 12	12 × 6 = 72	2 × 2 = 4	8 × 5 = 40	7 × 1 = 7

Find the GCF of 24 and 36.	24: 1, 2, 3, 4, 6, 8, 12, 24 36: 1, 2, 3, 4, 6, 9, 12, 18, 36	GCF of 24 and 36 is 12.

No calculator! SHOW ALL WORK!

1. 18 and 54

18: 1, 2, 3, 6, 9, 18

54: 1, 2, 3, 6, 9, 18, 27, 54

18

3. 24 and 60

24: 1, 2, 3, 4, 6, 8, 12, 24

60: 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60

12

5. 100 and 75

100: 1, 2, 4, 5, 10, 20, 25, 50, 100

75: 1, 3, 5, 15, 25, 75

25

7. 35 and 50

35: 1, 5, 7, 35

50: 1, 2, 5, 10, 25, 50

5

Key: wk 3

All Operations (C) Answers

Find each sum, difference, product, or quotient.

50	10	16	45	11	7	14	1	1	4
÷ 5	- 1	÷ 2	÷ 5	+ 3	× 3	- 5	× 3	× 1	× 12
10	9	8	9	14	21	9	3	1	48
10	15	22	4	3	11	3	18	7	24
× 1	- 11	÷ 11	× 6	× 10	+ 4	× 8	- 12	+ 8	÷ 4
10	4	2	24	30	15	24	6	15	6
19	16	16	21	84	9	10	8	14	33
- 12	- 6	- 11	- 9	÷ 12	- 7	- 9	× 10	- 4	÷ 11
7	10	5	12	7	2	1	80	10	3
10	1	5	4	5	4	11	4	7	8
- 5	× 10	+ 5	× 9	- 3	+ 2	× 5	× 3	× 8	× 2
5	10	10	36	2	6	55	12	56	16
8	7	11	5	2	12	1	11	3	42
- 5	- 5	- 4	- 2	+ 4	× 11	× 7	÷ 8	+ 8	÷ 6
3	2	7	3	6	132	7	19	11	7
42	1	12	11	8	84	13	45	12	8
÷ 7	+ 4	÷ 2	+ 11	× 4	÷ 7	- 6	÷ 9	× 4	× 3
6	5	6	22	32	12	7	5	48	24
11	5	9	77	7	6	80	13	8	60
× 8	÷ 1	× 2	÷ 7	× 12	× 8	÷ 10	- 6	- 2	÷ 5
88	5	18	11	84	48	8	7	6	12
1	12	10	3	15	12	3	3	17	33
× 12	× 1	÷ 2	× 8	÷ 5	+ 4	+ 5	× 8	- 9	÷ 3
12	12	5	24	3	16	8	24	8	11
11	7	11	10	1	9	8	8	14	5
× 7	+ 1	× 9	- 2	× 12	÷ 1	× 12	+ 2	÷ 2	× 6
77	8	99	8	12	9	96	10	7	30
11	90	2	8	21	10	1	9	20	14
- 7	÷ 9	× 6	- 1	÷ 7	+ 6	× 4	+ 11	- 9	- 4
4	10	12	7	3	16	4	20	11	10

Least Common Multiple

Find the LCM of 8 and 12.

8: 8, 16, 24, 32, 40, 48, 56, . . .
12: 12, 24, 36, 48, 60, 72, . . .

LCM of 8 and 12 is 24.

No calculator! SHOW ALL WORK!

1. 6 and 8

6: 6, 12, 18, 24, 30, 36, 42, 48, 54

8: 8, 16, 24, 32, 40, 48

~~48~~ 24

3. 5 and 7

5: 5, 10, 15, 20, 25, 30, 35, 40, 45

7: 7, 14, 21, 28, 35

35

5. 6 and 9

6: 6, 12, 18, 24, 30, 36, 42, 48

9: 9, 18, 27, 36, 45

~~36~~ 18

7. 15 and 6

15: 15, 30, 45, 60

6: 6, 12, 18, 24, 30

30

key: wk 4

Add and Subtract (D) Answers

Find each sum or difference.

4	7	13	9	5	12	13	4	11	3
- 3	- 2	- 9	- 4	+ 4	- 8	- 9	+ 3	- 2	+ 5
1	5	4	5	9	4	4	7	9	8
9	5	9	9	3	15	1	7	1	6
+ 7	+ 1	- 3	+ 3	+ 3	- 9	+ 8	+ 5	+ 1	+ 7
16	6	6	12	6	6	9	12	2	13
16	8	12	2	7	4	8	7	14	14
- 7	+ 7	- 5	+ 4	- 1	+ 3	- 2	+ 7	- 8	- 9
9	15	7	6	6	7	6	14	6	5
5	7	8	8	3	7	18	2	10	4
- 1	- 3	- 4	- 1	+ 5	+ 9	- 9	+ 1	- 4	- 2
4	4	4	7	8	16	9	3	6	2
2	13	17	1	15	6	12	2	9	13
+ 8	- 8	- 9	+ 1	- 8	+ 6	- 6	+ 5	+ 5	- 6
10	5	8	2	7	12	6	7	14	7
7	9	7	4	10	13	8	1	3	5
+ 7	+ 1	+ 8	+ 3	- 7	- 5	+ 4	+ 5	- 2	- 4
14	10	15	7	3	8	12	6	1	1
12	6	9	8	9	4	5	11	6	15
- 6	+ 9	- 2	- 1	+ 7	- 2	+ 7	- 3	+ 7	- 7
6	15	7	7	16	2	12	8	13	8
4	9	7	5	2	9	6	5	5	2
- 3	+ 9	+ 8	- 4	+ 6	- 5	+ 5	+ 7	+ 2	- 1
1	18	15	1	8	4	11	12	7	1
2	6	9	5	10	12	6	7	15	11
+ 6	+ 7	+ 3	+ 6	- 3	- 3	- 5	- 3	- 6	- 3
8	13	12	11	7	9	1	4	9	8
8	1	7	6	10	7	7	4	12	2
- 4	+ 1	- 4	+ 9	- 6	+ 2	+ 9	+ 5	- 4	+ 7
4	2	3	15	4	9	16	9	8	9

Order of Operations

Parentheses (Grouping Symbols)	$[(7-4)^2+3]+15$
Exponents	$=[3^2+3]+15$
Multiply or Divide, from left to right	$=[3\cdot3+3]+15$
Add or Subtract, from left to right	$=[9+3]+15$
	$=12+15$
	$=27$

NO CALCULATOR!

1. $6\div3+2\cdot7$

$2+14$

16

2. $5+8\cdot2-4$

$5+16-4$

$21-4$

17

3. $16\div8\cdot2^2$

$16\div8\cdot4$

$2\cdot4$

8

4. $10\div(3+2)+9$

$10\div5+9$

$2+9$

11

5. $7\cdot[(18-6)-6]$

$7\cdot[12-6]$

$7\cdot6$

42

6. $3+(27\div9)-5$

$3+3-5$

$6-5$

1

7. $(5-3)^2+3$

2^2+3

$4+3$

7

8. $[10+(25\cdot2)]\div6$

$[10+50]\div6$

$60\div6$

10

9. $(9\cdot2)+18\div6$

$18+18\div6$

$18+3$

21

key : wk 4

Division Facts (D) Answers

Find each quotient.

$32 \div 8 = 4$	$27 \div 3 = 9$	$9 \div 1 = 9$	$54 \div 9 = 6$
$8 \div 4 = 2$	$12 \div 3 = 4$	$16 \div 8 = 2$	$18 \div 3 = 6$
$72 \div 9 = 8$	$10 \div 5 = 2$	$9 \div 3 = 3$	$5 \div 5 = 1$
$20 \div 5 = 4$	$30 \div 5 = 6$	$54 \div 6 = 9$	$18 \div 9 = 2$
$24 \div 4 = 6$	$20 \div 4 = 5$	$6 \div 3 = 2$	$27 \div 9 = 3$
$36 \div 4 = 9$	$30 \div 6 = 5$	$36 \div 9 = 4$	$45 \div 5 = 9$
$9 \div 1 = 9$	$10 \div 2 = 5$	$42 \div 6 = 7$	$24 \div 6 = 4$
$5 \div 1 = 5$	$30 \div 6 = 5$	$15 \div 3 = 5$	$1 \div 1 = 1$
$15 \div 5 = 3$	$16 \div 2 = 8$	$12 \div 3 = 4$	$45 \div 5 = 9$
$8 \div 1 = 8$	$45 \div 9 = 5$	$32 \div 4 = 8$	$2 \div 1 = 2$
$9 \div 9 = 1$	$42 \div 7 = 6$	$40 \div 5 = 8$	$24 \div 4 = 6$
$16 \div 4 = 4$	$3 \div 1 = 3$	$30 \div 5 = 6$	$54 \div 6 = 9$
$35 \div 7 = 5$	$28 \div 7 = 4$	$7 \div 1 = 7$	$6 \div 6 = 1$
$81 \div 9 = 9$	$4 \div 1 = 4$	$8 \div 4 = 2$	$6 \div 1 = 6$
$18 \div 9 = 2$	$56 \div 8 = 7$	$20 \div 4 = 5$	$40 \div 8 = 5$
$18 \div 3 = 6$	$5 \div 5 = 1$	$21 \div 3 = 7$	$36 \div 9 = 4$
$18 \div 6 = 3$	$64 \div 8 = 8$	$24 \div 3 = 8$	$32 \div 8 = 4$
$9 \div 3 = 3$	$12 \div 4 = 3$	$63 \div 9 = 7$	$4 \div 4 = 1$
$48 \div 6 = 8$	$3 \div 3 = 1$	$7 \div 7 = 1$	$10 \div 5 = 2$
$27 \div 9 = 3$	$56 \div 7 = 8$	$8 \div 2 = 4$	$4 \div 2 = 2$
$27 \div 3 = 9$	$6 \div 3 = 2$	$20 \div 5 = 4$	$72 \div 8 = 9$
$36 \div 6 = 6$	$36 \div 4 = 9$	$54 \div 9 = 6$	$12 \div 6 = 2$
$49 \div 7 = 7$	$35 \div 5 = 7$	$14 \div 2 = 7$	$21 \div 7 = 3$
$14 \div 7 = 2$	$28 \div 4 = 7$	$25 \div 5 = 5$	$2 \div 2 = 1$
$24 \div 8 = 3$	$8 \div 8 = 1$	$63 \div 7 = 9$	$12 \div 2 = 6$

A) 653 x 29

$$\begin{array}{r} {\scriptstyle 1\,5}\\ 653\\ \times\ 29\\ \hline 5877\\ +13060\\ \hline 18937 \end{array}$$

1820 ÷ 28

$$\begin{array}{r} 65\\ 28\overline{)1820}\\ -168\\ \hline 140\\ -140 \end{array}$$

$$\begin{array}{r} 28\\ \times\ 6\\ \hline 168 \end{array} \qquad \begin{array}{r} 28\\ \times\ 5\\ \hline 140 \end{array}$$

NO CALCULATOR! SHOW ALL WORK!

1. 975 x 8

$$\begin{array}{r} {\scriptstyle 6\ 4}\\ 975\\ \times\ 8\\ \hline 7800 \end{array}$$

2. 109 x 7

$$\begin{array}{r} 109\\ \times\ 7\\ \hline 763 \end{array}$$

4. 73 x 18

$$\begin{array}{r} {\scriptstyle 2}\\ 73\\ \times\ 18\\ \hline 584\\ +730\\ \hline 1,314 \end{array}$$

5. 471 x 16

$$\begin{array}{r} {\scriptstyle 4}\\ 471\\ \times\ 16\\ \hline 2826\\ +4710\\ \hline 7,536 \end{array}$$

7. 2970 ÷ 5

$$\begin{array}{r} 594\\ 5\overline{)2970}\\ -25\\ \hline 47\\ -45\\ \hline 20\\ -20\\ \hline 0 \end{array}$$

[594]

8. 2124 ÷ 4

$$\begin{array}{r} 531\\ 4\overline{)2124}\\ -20\\ \hline 12\\ -12\\ \hline 0 \end{array}$$

[531]

10. 5472 ÷ 19

$$\begin{array}{r} 288\\ 19\overline{)5472}\\ -38\\ \hline 167\\ -152\\ \hline 152\\ -152\\ \hline 0 \end{array}$$

[288]

11. 42800 ÷ 25

$$\begin{array}{r} 1712\\ 25\overline{)42800}\\ 25\downarrow\\ \hline 178\\ -175\\ \hline 30\\ -25\\ \hline 50\\ -50\\ \hline 0 \end{array}$$

[1,712]

key: wk 4

Multiplication Facts to 144 (C) Answers

Name: _____ Date: _____ Score: ____ /100

Calculate each product.

4 × 4 = 16	4 × 8 = 32	5 × 12 = 60	11 × 8 = 88	7 × 10 = 70	12 × 12 = 144	0 × 6 = 0	2 × 7 = 14	8 × 5 = 40	9 × 1 = 9
3 × 7 = 21	8 × 7 = 56	6 × 10 = 60	6 × 2 = 12	11 × 6 = 66	3 × 4 = 12	0 × 1 = 0	8 × 6 = 48	10 × 0 = 0	2 × 0 = 0
10 × 2 = 20	3 × 1 = 3	7 × 12 = 84	5 × 7 = 35	4 × 6 = 24	12 × 4 = 48	11 × 5 = 55	0 × 7 = 0	8 × 12 = 96	4 × 7 = 28
4 × 0 = 0	7 × 7 = 49	8 × 1 = 8	8 × 2 = 16	8 × 8 = 64	5 × 10 = 50	1 × 4 = 4	6 × 7 = 42	2 × 9 = 18	8 × 3 = 24
1 × 7 = 7	5 × 5 = 25	11 × 10 = 110	1 × 10 = 10	1 × 11 = 11	10 × 9 = 90	5 × 6 = 30	9 × 9 = 81	4 × 5 = 20	2 × 12 = 24
11 × 4 = 44	3 × 5 = 15	11 × 7 = 77	3 × 3 = 9	0 × 12 = 0	1 × 6 = 6	8 × 9 = 72	3 × 11 = 33	9 × 11 = 99	9 × 6 = 54
2 × 2 = 4	0 × 3 = 0	7 × 9 = 63	10 × 12 = 120	11 × 11 = 121	11 × 2 = 22	3 × 6 = 18	0 × 0 = 0	12 × 9 = 108	5 × 1 = 5
2 × 5 = 10	0 × 8 = 0	6 × 6 = 36	9 × 5 = 45	4 × 2 = 8	1 × 12 = 12	4 × 9 = 36	12 × 6 = 72	12 × 11 = 132	10 × 10 = 100
1 × 1 = 1	0 × 11 = 0	3 × 2 = 6	10 × 3 = 30	0 × 9 = 0	0 × 5 = 0	9 × 3 = 27	10 × 8 = 80	10 × 4 = 40	3 × 12 = 36
2 × 1 = 2	10 × 8 = 80	11 × 7 = 77	11 × 3 = 33	2 × 7 = 14	3 × 3 = 9	3 × 7 = 21	0 × 0 = 0	8 × 3 = 24	8 × 1 = 8

Find the Mean/Average, Median, Mode, and Range of a Set of Numbers

Exercises: No Calculators!

No work = no credit.

Data Set: ~~5, 12, 6, 3, 8, 16, 8, 8~~ 3, 5, 6, 6, 8, 8, 12, 16

Mean: 8

$\frac{3+6+6+6+8+8+12+16}{8} = \frac{64}{8} = 8$

Median: 7

Mode: 6 and 8

Range: 16 − 3 = 13

Data Set: ~~2, 7, 4, 11, 12, 4, 6~~ 2, 4, 4, 6, 7, 11, 12

Mean: 6.57... or $6\frac{4}{7}$

$\frac{2+4+4+6+7+11+12}{7} = \frac{46}{7}$

Median: 6

Mode: 4

Range: 12 − 2 = 10

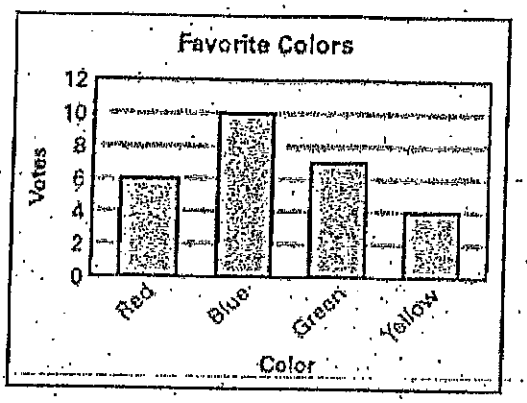
key: wk 4

All Operations (D) Answers

Find each sum, difference, product, or quotient.

9	9	12	9	1	90	8	9	27	50
÷ 3	× 7	÷ 2	- 5	× 2	÷ 9	× 9	× 1	÷ 3	÷ 5
3	63	6	4	2	10	72	9	9	10
28	20	14	60	1	6	12	10	1	3
÷ 4	- 12	- 2	÷ 6	× 4	+ 8	+ 7	- 6	+ 4	+ 11
7	8	12	10	4	14	19	4	5	14
6	6	60	7	2	13	8	21	5	1
+ 1	+ 10	÷ 12	+ 3	+ 9	- 9	- 1	÷ 7	× 10	× 3
7	16	5	10	11	4	7	3	50	3
28	8	4	24	9	10	11	11	84	2
÷ 4	+ 3	- 1	÷ 3	+ 11	+ 1	× 6	- 3	÷ 7	- 1
7	11	3	8	20	11	66	8	12	1
10	2	18	8	12	7	9	13	12	10
- 4	+ 1	- 8	- 3	+ 12	+ 8	- 3	- 9	× 12	× 8
6	3	10	5	24	15	6	4	144	80
81	22	14	11	33	20	10	8	1	48
÷ 9	- 11	÷ 7	- 6	÷ 11	÷ 10	÷ 2	× 10	× 8	÷ 8
9	11	2	5	3	2	5	80	8	6
23	70	7	7	12	12	3	16	7	2
- 12	÷ 7	× 9	× 2	× 6	- 10	× 3	- 10	- 2	+ 9
11	10	63	14	72	2	9	6	5	11
10	5	9	7	5	15	21	4	12	12
× 2	× 11	× 4	× 6	+ 3	- 3	- 12	× 6	÷ 6	× 10
20	55	36	42	8	12	9	24	2	120
54	7	8	27	7	7	13	9	11	5
÷ 6	× 10	× 4	÷ 9	+ 7	÷ 7	- 3	+ 11	+ 1	+ 4
9	70	32	3	14	1	10	20	12	9
12	8	14	10	16	11	9	2	10	3
- 9	+ 3	- 10	× 1	- 4	+ 12	÷ 9	× 5	× 2	× 6
3	11	4	10	12	23	1	10	20	18

Use the bar graph.

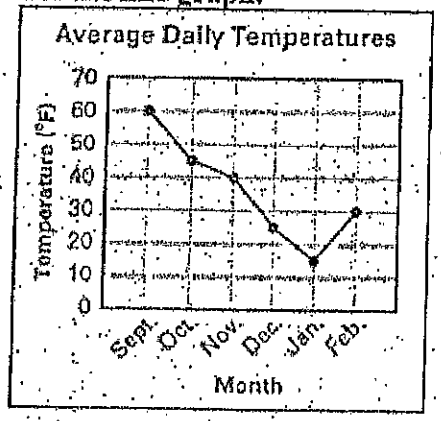


What color did 7 people vote for? Green

What color had 4 fewer votes than blue? Red

What was the total number of votes for red and yellow? 10

Use the line graph.



In which month was the average daily temperature the lowest? Jan

What is the difference between the average daily temperatures for November and December? 40 - 25 = 15

What was the average daily temperature for October? 45°

key: wk 5

Add and Subtract (E) Answers

Find each sum or difference.

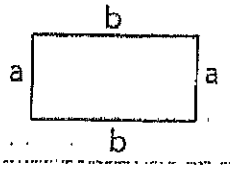
2	1	11	15	8	5	10	11	12	14
+8	+7	-8	-6	+7	+9	-3	-3	-6	-6
10	8	3	9	15	14	7	8	6	8
3	7	5	11	9	8	9	3	10	2
+5	-1	+9	-7	+3	-3	-1	+4	-2	+5
8	6	14	4	12	5	8	7	8	7
15	1	4	9	1	6	13	1	17	9
-7	+4	+6	+3	+8	-2	-5	+4	-9	-8
8	5	10	12	9	4	8	5	8	1
3	5	11	13	12	5	2	11	5	1
+7	-2	-8	-9	-7	-4	+7	-6	-4	+4
10	3	3	4	5	1	9	5	1	5
11	1	9	1	9	6	5	7	6	2
-5	+1	+9	+6	-5	-5	+8	-6	+3	+3
6	2	18	7	4	1	13	1	9	5
15	11	6	8	7	5	7	12	7	1
-8	-6	-4	-3	+1	-3	+3	-9	+9	+7
7	5	2	5	8	2	10	3	16	8
9	3	4	12	3	15	7	10	3	2
+7	+3	+7	-5	+8	-7	+1	-6	+8	+2
16	6	11	7	11	8	8	4	11	4
2	2	5	15	9	3	8	2	8	9
-1	+2	+2	-6	-1	-2	-1	+9	-5	-2
1	4	7	9	8	1	7	11	3	7
6	12	14	8	12	18	2	10	1	3
+3	-7	-9	+5	-5	-9	+3	-4	+1	+4
9	5	5	13	7	9	5	6	2	7
11	1	17	5	6	2	8	9	2	8
-7	+3	-8	-3	+5	+5	+1	+8	+2	-1
4	4	9	2	11	7	9	17	4	7

Perimeter:

Perimeter of a rectangle

The opposite sides of a rectangle are congruent.

$P = a + b + a + b$



$P = a + b + a + b$

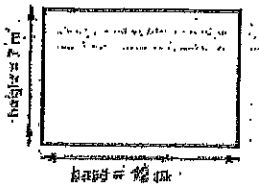
Example:
If a = 3 units and b = 5 units then
Perimeter (P) = 3 + 5 + 3 + 5 = 16 units

Area:

Area of Rectangle

The area of a Rectangle equals the base times the height.

$A = b \times h$

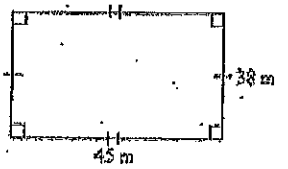


$A = b \times h$
$A = 12 \times 7$
$A = 84\ m^2$

Find the perimeter and area of each shape:

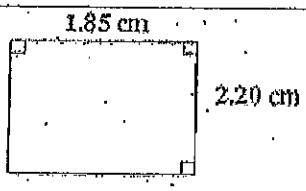
$A = 12 \times 7 = 84$
$P = 12 + 7 + 12 + 7 =$

Perimeter: 38 cm Area: 84 cm²



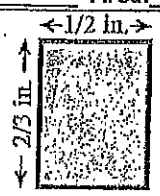
$A = 45 \times 38$
$P = 45 + 45 + 38 + 38$
$90 \quad 76$
166

Perimeter: ~~166~~ 166 m Area: 1710 m²



$A = 1.85 \times 2.20$
$P = 1.85 + 1.85 + 2.2 + 2.2$

Perimeter: 8.1 cm Area: 4.07 cm²



$A = \frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{1}{3}$

$P = \frac{1}{2} + \frac{1}{2} + \frac{2}{3} + \frac{2}{3} = \frac{3}{6} + \frac{3}{6} + \frac{4}{6} + \frac{4}{6} = \frac{14}{6} = 2\frac{2}{3} = 2\frac{1}{3}$

Perimeter: $2\frac{1}{3}$ in Area: $\frac{1}{3}$ in²

key : wk 5

Division Facts (E) Answers

Find each quotient.

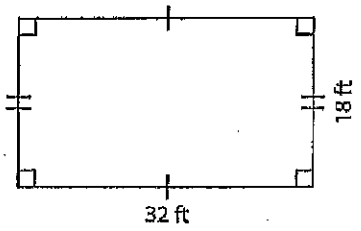
$16 \div 8 = 2$	$72 \div 9 = 8$	$6 \div 2 = 3$	$18 \div 2 = 9$
$48 \div 8 = 6$	$16 \div 4 = 4$	$24 \div 8 = 3$	$20 \div 5 = 4$
$56 \div 7 = 8$	$27 \div 9 = 3$	$1 \div 1 = 1$	$14 \div 7 = 2$
$45 \div 5 = 9$	$64 \div 8 = 8$	$5 \div 1 = 5$	$25 \div 5 = 5$
$20 \div 4 = 5$	$6 \div 1 = 6$	$72 \div 9 = 8$	$5 \div 5 = 1$
$35 \div 5 = 7$	$54 \div 6 = 9$	$15 \div 5 = 3$	$3 \div 1 = 3$
$15 \div 3 = 5$	$40 \div 5 = 8$	$18 \div 6 = 3$	$12 \div 4 = 3$
$36 \div 9 = 4$	$28 \div 4 = 7$	$18 \div 9 = 2$	$21 \div 7 = 3$
$81 \div 9 = 9$	$48 \div 8 = 6$	$8 \div 1 = 8$	$40 \div 8 = 5$
$4 \div 4 = 1$	$42 \div 6 = 7$	$24 \div 4 = 6$	$16 \div 2 = 8$
$35 \div 7 = 5$	$18 \div 3 = 6$	$24 \div 3 = 8$	$63 \div 7 = 9$
$32 \div 8 = 4$	$9 \div 1 = 9$	$14 \div 2 = 7$	$2 \div 2 = 1$
$7 \div 1 = 7$	$72 \div 8 = 9$	$10 \div 5 = 2$	$30 \div 5 = 6$
$42 \div 7 = 6$	$45 \div 9 = 5$	$12 \div 6 = 2$	$7 \div 7 = 1$
$8 \div 4 = 2$	$36 \div 4 = 9$	$6 \div 2 = 3$	$32 \div 4 = 8$
$4 \div 1 = 4$	$8 \div 8 = 1$	$16 \div 8 = 2$	$56 \div 8 = 7$
$54 \div 9 = 6$	$49 \div 7 = 7$	$28 \div 7 = 4$	$9 \div 3 = 3$
$18 \div 2 = 9$	$48 \div 6 = 8$	$10 \div 2 = 5$	$21 \div 3 = 7$
$30 \div 6 = 5$	$3 \div 3 = 1$	$2 \div 1 = 2$	$4 \div 2 = 2$
$12 \div 2 = 6$	$27 \div 3 = 9$	$8 \div 2 = 4$	$9 \div 9 = 1$
$6 \div 3 = 2$	$12 \div 3 = 4$	$6 \div 6 = 1$	$36 \div 6 = 6$
$63 \div 9 = 7$	$24 \div 6 = 4$	$12 \div 6 = 2$	$9 \div 1 = 9$
$20 \div 4 = 5$	$72 \div 8 = 9$	$15 \div 3 = 5$	$5 \div 1 = 5$
$8 \div 1 = 8$	$49 \div 7 = 7$	$2 \div 1 = 2$	$27 \div 3 = 9$
$10 \div 2 = 5$	$21 \div 3 = 7$	$3 \div 1 = 3$	$14 \div 7 = 2$

Area of a Quadrilateral

Answer Key

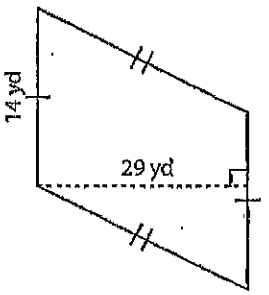
Find the area of each quadrilateral.

1)



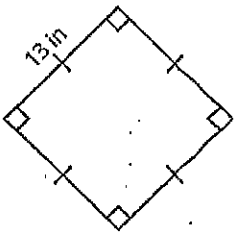
Area = 576 ft²

2)



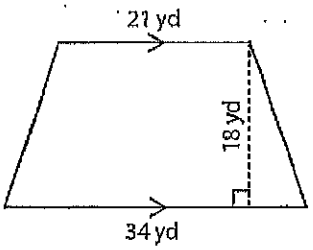
Area = 406 yd²

3)



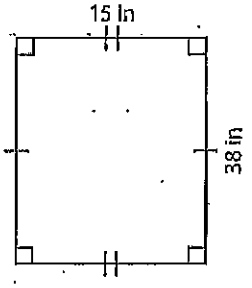
Area = 169 in²

4)



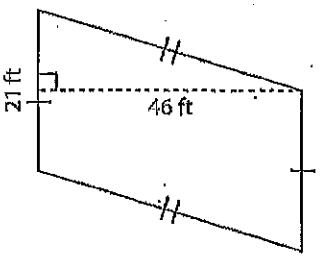
Area = 495 yd²

5)



Area = 570 in²

6)



Area = 966 ft²

key: WS 5

Multiplication Facts to 144 (B) Answers

Name: _____ Date: _____ Score: ____ /100

Calculate each product.

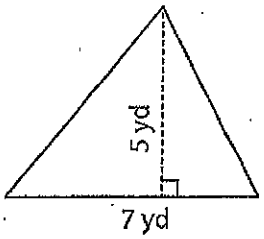
3 × 1 = 3	12 × 5 = 60	2 × 3 = 6	1 × 7 = 7	8 × 5 = 40	6 × 6 = 36	11 × 9 = 99	12 × 4 = 48	9 × 1 = 9	11 × 11 = 121
8 × 7 = 56	1 × 0 = 0	6 × 10 = 60	8 × 4 = 32	5 × 10 = 50	10 × 11 = 110	6 × 0 = 0	7 × 7 = 49	5 × 9 = 45	5 × 0 = 0
12 × 11 = 132	10 × 8 = 80	4 × 6 = 24	4 × 11 = 44	3 × 4 = 12	5 × 6 = 30	3 × 0 = 0	12 × 12 = 144	10 × 10 = 100	10 × 3 = 30
5 × 3 = 15	10 × 2 = 20	2 × 5 = 10	8 × 1 = 8	4 × 1 = 4	3 × 12 = 36	7 × 4 = 28	8 × 12 = 96	2 × 7 = 14	6 × 8 = 48
7 × 11 = 77	8 × 9 = 72	11 × 8 = 88	4 × 4 = 16	0 × 9 = 0	11 × 2 = 22	0 × 12 = 0	7 × 0 = 0	3 × 11 = 33	12 × 2 = 24
1 × 11 = 11	9 × 3 = 27	1 × 5 = 5	7 × 12 = 84	1 × 2 = 2	4 × 5 = 20	9 × 12 = 108	5 × 5 = 25	6 × 1 = 6	2 × 2 = 4
0 × 10 = 0	11 × 6 = 66	2 × 0 = 0	2 × 8 = 16	7 × 3 = 21	8 × 8 = 64	6 × 7 = 42	10 × 4 = 40	9 × 7 = 63	10 × 7 = 70
11 × 5 = 55	8 × 0 = 0	3 × 3 = 9	0 × 11 = 0	1 × 1 = 1	6 × 3 = 18	0 × 4 = 0	9 × 9 = 81	6 × 12 = 72	0 × 0 = 0
3 × 8 = 24	2 × 4 = 8	4 × 9 = 36	2 × 9 = 18	12 × 10 = 120	10 × 9 = 90	1 × 12 = 12	6 × 9 = 54	2 × 6 = 12	5 × 7 = 35
10 × 1 = 10	3 × 3 = 9	5 × 11 = 55	2 × 7 = 14	4 × 4 = 16	12 × 8 = 96	10 × 0 = 0	3 × 7 = 21	3 × 0 = 0	4 × 3 = 12

Area of Triangles | Integers

Answer key

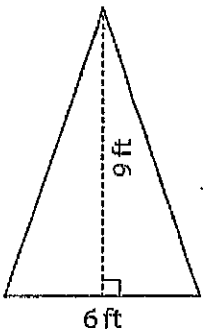
Find the area of each triangle.

1)



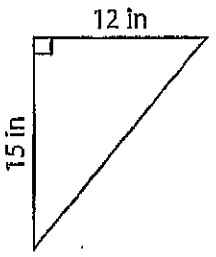
Area = **17.5 yd²**

2)



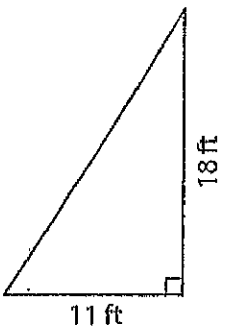
Area = **27 ft²**

3)



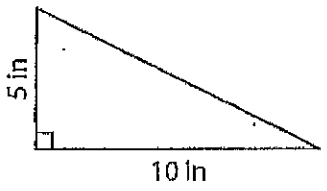
Area = **90 in²**

4)



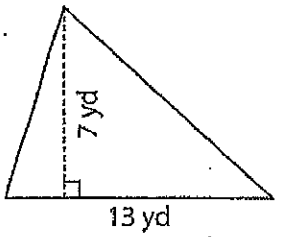
Area = **99 ft²**

5)



Area = **25 in²**

6)



Area = **45.5 yd²**

key: wk 5

All Operations (F) Answers

Find each sum, difference, product, or quotient.

48	72	3	4	9	14	2	8	14	2
÷ 12	÷ 6	× 12	- 2	+ 3	- 12	× 10	- 2	- 7	× 7
4	12	36	2	12	2	20	6	7	14
55	3	10	10	9	7	8	2	5	5
÷ 11	÷ 1	÷ 2	× 12	+ 4	× 3	- 1	+ 1	- 4	× 5
5	3	5	120	13	21	7	3	1	25
10	90	16	20	4	100	19	6	5	1
- 1	÷ 9	- 5	- 11	+ 10	÷ 10	- 8	× 7	- 2	+ 11
9	10	11	9	14	10	11	42	3	12
1	3	9	10	10	120	2	11	70	11
× 4	+ 2	÷ 3	× 8	+ 2	÷ 12	× 2	- 1	÷ 10	+ 10
4	5	3	80	12	10	4	10	7	21
8	12	7	10	32	12	3	12	110	7
- 4	- 5	+ 5	× 9	÷ 8	+ 11	+ 10	× 11	÷ 10	+ 3
4	7	12	90	4	23	13	132	11	10
4	7	12	1	5	7	4	121	36	9
+ 9	+ 2	× 12	+ 8	- 4	+ 3	+ 11	÷ 11	÷ 4	+ 5
13	9	144	9	1	10	15	11	9	14
5	8	15	2	4	22	1	6	15	144
- 2	+ 9	- 11	+ 6	+ 12	÷ 2	+ 10	× 3	- 12	÷ 12
3	17	4	8	16	11	11	18	3	12
1	11	4	2	16	5	1	6	10	40
× 11	- 10	× 5	+ 12	- 11	- 1	× 11	- 5	÷ 1	÷ 10
11	1	20	14	5	4	11	1	10	4
28	11	11	5	17	4	42	4	144	49
÷ 4	+ 11	- 5	× 9	- 7	+ 5	÷ 7	÷ 4	÷ 12	÷ 7
7	22	6	45	10	9	6	1	12	7
81	5	10	4	10	3	2	21	42	20
÷ 9	× 6	× 11	× 4	+ 2	+ 10	× 9	- 12	÷ 6	- 9
9	30	110	16	12	13	18	9	7	11

Key: WK 6

Add and Subtract (F) Answers

Find each sum or difference.

4	5	4	4	4	7	14	7	5	9
- 2	+ 7	- 1	+ 2	+ 2	- 3	- 9	+ 4	+ 8	+ 7
2	12	3	6	6	4	5	11	13	16
7	12	10	1	3	6	8	3	8	10
+ 1	- 7	- 4	+ 6	+ 6	+ 7	- 4	+ 9	+ 4	- 1
8	5	6	7	9	13	4	12	12	9
13	9	16	12	10	4	16	18	6	6
- 7	+ 6	- 8	- 8	- 1	- 1	- 8	- 9	- 3	+ 4
6	15	8	4	9	3	8	9	3	10
9	12	14	9	7	15	9	5	6	12
- 5	- 3	- 5	+ 9	+ 1	- 7	- 3	+ 3	+ 4	- 4
4	9	9	18	8	8	6	8	10	8
12	5	3	10	8	4	8	7	9	12
- 4	+ 5	+ 6	- 6	- 2	+ 5	+ 3	+ 5	- 2	- 9
8	10	9	4	6	9	11	12	7	3
5	5	4	12	13	7	4	14	15	2
- 4	+ 3	- 1	- 7	- 9	- 5	+ 9	- 5	- 7	+ 3
1	8	3	5	4	2	13	9	8	5
16	4	13	2	10	3	14	10	17	2
- 8	- 2	- 6	+ 3	- 3	+ 4	- 8	- 5	- 9	- 1
8	2	7	5	7	7	6	5	8	1
6	7	5	7	9	9	6	6	5	9
+ 4	+ 8	- 2	+ 9	+ 3	- 3	+ 8	+ 8	+ 3	+ 9
10	15	3	16	12	6	14	14	8	18
4	14	4	12	9	8	2	12	9	9
+ 3	- 9	+ 2	- 3	+ 8	- 1	- 1	- 4	- 7	- 1
7	5	6	9	17	7	1	8	2	8
7	5	2	9	9	7	15	7	16	3
+ 7	+ 7	+ 5	+ 9	+ 4	+ 8	- 6	- 4	- 9	+ 3
14	12	7	18	13	15	9	3	7	6

Name: _____

Answer Key

One-Step Equations: Integers

Add/Sub Level 1: S1

Solve each equation.

1) $x + 9 = 12$
$-9 \quad -9$
$x = 3$

2) $s - 1 = 10$
$+1 \quad +1$
$s = 11$

3) $3 = z - 11$
$+11 \quad +11$
$z = 14$

4) $5 + y = 7$
$-5 \quad -5$
$y = 2$

5) $8 = 2 + q$
$-2 \quad -2$
$q = 6$

6) $6 = n - 4$
$+4 \quad +4$
$n = 10$

7) $r - 2 = 5$
$+2 \quad +2$
$r = 7$

8) $6 = m + 6$
$-6 \quad -6$
$m = 0$

9) $p + 7 = 8$
$-7 \quad -7$
$p = 1$

10) $4 + a = 13$
$-4 \quad -4$
$a = 9$

key : wk 6

Division Facts (F) Answers

Find each quotient.

$6 \div 1 = 6$	$36 \div 4 = 9$	$4 \div 2 = 2$	$6 \div 3 = 2$
$18 \div 2 = 9$	$12 \div 2 = 6$	$12 \div 4 = 3$	$6 \div 2 = 3$
$9 \div 9 = 1$	$40 \div 5 = 8$	$32 \div 4 = 8$	$14 \div 2 = 7$
$9 \div 3 = 3$	$18 \div 3 = 6$	$2 \div 2 = 1$	$40 \div 8 = 5$
$16 \div 4 = 4$	$16 \div 8 = 2$	$21 \div 7 = 3$	$6 \div 6 = 1$
$4 \div 4 = 1$	$1 \div 1 = 1$	$18 \div 6 = 3$	$48 \div 8 = 6$
$28 \div 7 = 4$	$25 \div 5 = 5$	$16 \div 2 = 8$	$4 \div 1 = 4$
$5 \div 5 = 1$	$30 \div 6 = 5$	$42 \div 6 = 7$	$7 \div 1 = 7$
$54 \div 6 = 9$	$45 \div 9 = 5$	$8 \div 2 = 4$	$24 \div 4 = 6$
$48 \div 6 = 8$	$24 \div 3 = 8$	$36 \div 9 = 4$	$12 \div 3 = 4$
$3 \div 3 = 1$	$42 \div 7 = 6$	$24 \div 6 = 4$	$8 \div 8 = 1$
$63 \div 7 = 9$	$7 \div 7 = 1$	$56 \div 7 = 8$	$32 \div 8 = 4$
$27 \div 9 = 3$	$35 \div 7 = 5$	$20 \div 5 = 4$	$8 \div 4 = 2$
$28 \div 4 = 7$	$18 \div 9 = 2$	$35 \div 5 = 7$	$24 \div 8 = 3$
$56 \div 8 = 7$	$64 \div 8 = 8$	$15 \div 5 = 3$	$72 \div 9 = 8$
$81 \div 9 = 9$	$54 \div 9 = 6$	$30 \div 5 = 6$	$36 \div 6 = 6$
$45 \div 5 = 9$	$63 \div 9 = 7$	$10 \div 5 = 2$	$14 \div 7 = 2$
$5 \div 1 = 5$	$8 \div 4 = 2$	$48 \div 6 = 8$	$24 \div 6 = 4$
$56 \div 7 = 8$	$40 \div 5 = 8$	$42 \div 6 = 7$	$54 \div 9 = 6$
$15 \div 5 = 3$	$14 \div 2 = 7$	$8 \div 1 = 8$	$16 \div 4 = 4$
$36 \div 6 = 6$	$6 \div 6 = 1$	$32 \div 4 = 8$	$12 \div 6 = 2$
$2 \div 1 = 2$	$45 \div 9 = 5$	$72 \div 9 = 8$	$63 \div 9 = 7$
$27 \div 3 = 9$	$10 \div 5 = 2$	$18 \div 9 = 2$	$30 \div 5 = 6$
$36 \div 9 = 4$	$81 \div 9 = 9$	$12 \div 4 = 3$	$45 \div 5 = 9$
$24 \div 8 = 3$	$54 \div 6 = 9$	$64 \div 8 = 8$	$5 \div 5 = 1$

Name : _____

Answer Key

One-Step Equations: Integers

Mul/Div Level 1: S1

Solve each equation.

1) $3x = 36$
÷3 ÷3

x = 12

2) $\frac{y}{9} = 3$
x9 x9

y = 27

3) $5p = 25$
÷5 ÷5

p = 5

4) $14 = \frac{a}{2}$
x2 x2

a = 28

5) $\frac{r}{8} = 4$
x8 x8

r = 32

6) $24 = 6c$
÷6 ÷6

c = 4

7) $\frac{q}{11} = 1$
x11 x11

q = 11

8) $8u = 40$
÷8 ÷8

u = 5

9) $10 = \frac{w}{3}$
x3 x3

w = 30

10) $7z = 7$
÷7 ÷7

z = 1

Key: WK 6

Multiplication Facts to 144 (A) Answers

Name: _____ Date: _____ Score: ____ /100

Calculate each product.

8 × 1 = 8	11 × 0 = 0	5 × 3 = 15	7 × 1 = 7	10 × 5 = 50	6 × 10 = 60	12 × 12 = 144	2 × 9 = 18	6 × 11 = 66	0 × 7 = 0
3 × 3 = 9	12 × 0 = 0	9 × 9 = 81	7 × 9 = 63	1 × 2 = 2	8 × 12 = 96	4 × 12 = 48	7 × 4 = 28	10 × 12 = 120	8 × 8 = 64
9 × 5 = 45	6 × 0 = 0	8 × 0 = 0	0 × 5 = 0	8 × 7 = 56	10 × 0 = 0	8 × 5 = 40	1 × 0 = 0	3 × 7 = 21	3 × 12 = 36
11 × 11 = 121	1 × 11 = 11	3 × 11 = 33	1 × 3 = 3	9 × 11 = 99	0 × 0 = 0	4 × 4 = 16	0 × 3 = 0	11 × 4 = 44	1 × 9 = 9
11 × 12 = 132	12 × 1 = 12	10 × 10 = 100	10 × 8 = 80	8 × 2 = 16	4 × 0 = 0	4 × 5 = 20	2 × 5 = 10	1 × 10 = 10	7 × 12 = 84
9 × 3 = 27	5 × 5 = 25	6 × 4 = 24	1 × 1 = 1	11 × 5 = 55	3 × 6 = 18	3 × 2 = 6	5 × 6 = 30	4 × 10 = 40	12 × 2 = 24
10 × 9 = 90	6 × 1 = 6	6 × 8 = 48	5 × 1 = 5	8 × 3 = 24	5 × 12 = 60	4 × 8 = 32	7 × 7 = 49	11 × 7 = 77	4 × 1 = 4
6 × 12 = 72	7 × 6 = 42	6 × 9 = 54	7 × 10 = 70	4 × 3 = 12	3 × 10 = 30	2 × 11 = 22	9 × 8 = 72	2 × 10 = 20	6 × 2 = 12
2 × 4 = 8	2 × 7 = 14	12 × 9 = 108	11 × 10 = 110	0 × 9 = 0	4 × 9 = 36	6 × 6 = 36	11 × 8 = 88	2 × 2 = 4	7 × 5 = 35
2 × 0 = 0	1 × 6 = 6	1 × 11 = 11	1 × 1 = 1	4 × 7 = 28	4 × 10 = 40	11 × 3 = 33	8 × 7 = 56	3 × 5 = 15	1 × 10 = 10

Name : _____

Answer Key

One-Step Equations: Integers

Mixed Operations Level 1:S1

Solve each equation.

1) $10 = z + 6$

$z = 4$

2) $8y = 48$

$y = 6$

3) $q - 12 = 1$

$q = 13$

4) $18 = \frac{a}{2}$

$a = 36$

5) $\frac{r}{3} = 7$

$r = 21$

6) $11 = m - 4$

$m = 15$

7) $t - 19 = 2$

$t = 21$

8) $1 + s = 3$

$s = 2$

9) $24 = 4c$

$c = 6$

10) $\frac{v}{5} = 9$

$v = 45$

key: wk 6

All Operations (E) Answers

Find each sum, difference, product, or quotient.

32	7	5	18	14	10	5	2	8	6
÷ 4	× 1	× 9	- 11	- 7	- 4	+ 9	+ 4	× 8	- 1
8	7	45	7	7	6	14	6	64	5
60	10	9	9	84	5	20	21	30	11
÷ 6	+ 6	- 2	- 2	÷ 7	× 9	÷ 4	- 11	÷ 5	- 7
10	16	7	7	12	45	5	10	6	4
5	6	10	8	19	14	7	63	14	19
÷ 5	× 5	× 10	- 5	- 7	- 5	+ 4	÷ 9	- 6	- 7
1	30	100	3	12	9	11	7	8	12
11	5	1	2	7	2	13	20	18	99
+ 2	÷ 1	× 2	+ 7	+ 4	× 7	- 7	÷ 5	÷ 2	÷ 9
13	5	2	9	11	14	6	4	9	11
1	72	16	120	14	10	20	64	55	27
+ 10	÷ 8	- 9	÷ 12	- 3	× 3	- 12	÷ 8	÷ 11	÷ 9
11	9	7	10	11	30	8	8	5	3
88	28	2	9	72	144	3	19	11	13
÷ 8	÷ 4	+ 3	+ 6	÷ 6	÷ 12	+ 4	- 9	- 5	- 3
11	7	5	15	12	12	7	10	6	10
10	4	11	3	4	19	6	6	6	66
+ 11	× 9	× 9	- 2	+ 8	- 10	+ 7	+ 9	+ 8	÷ 11
21	36	99	1	12	9	13	15	14	6
9	77	6	2	9	100	18	20	5	12
+ 12	÷ 7	× 1	÷ 1	÷ 9	÷ 10	- 8	- 10	+ 4	- 8
21	11	6	2	1	10	10	10	9	4
6	5	11	5	121	10	19	22	132	12
× 8	× 8	+ 9	- 1	÷ 11	× 12	- 8	÷ 11	÷ 11	+ 3
48	40	20	4	11	120	11	2	12	15
3	18	1	9	20	6	3	13	6	15
× 7	÷ 9	+ 7	÷ 1	- 8	× 6	× 8	- 4	+ 6	÷ 5
21	2	8	9	12	36	24	9	12	3

All Operations (A) Answers

Find each sum, difference, product, or quotient.

14	14	3	12	5	24	9	8	63	2
- 11	- 8	+ 11	- 4	- 3	÷ 6	- 1	× 12	÷ 9	× 12
3	6	14	8	2	4	8	96	7	24
5	4	66	4	8	11	12	84	7	13
+ 9	÷ 4	÷ 11	+ 11	÷ 2	- 5	× 5	÷ 12	× 7	- 2
14	1	6	15	4	6	60	7	49	11
1	77	2	10	10	24	19	9	5	22
× 4	÷ 7	× 2	× 10	× 6	÷ 4	- 10	+ 9	× 8	- 11
4	11	4	100	60	6	9	18	40	11
16	2	2	11	14	19	8	7	6	19
- 9	+ 3	÷ 1	- 7	- 7	- 12	+ 5	+ 3	÷ 2	- 10
7	5	2	4	7	7	13	10	3	9
36	8	7	7	7	7	4	12	8	5
÷ 12	- 7	+ 2	- 4	× 9	× 1	+ 1	× 5	+ 5	+ 12
3	1	9	3	63	7	5	60	13	17
2	16	7	3	5	3	36	7	22	4
+ 11	÷ 8	+ 1	+ 5	+ 2	+ 8	÷ 4	× 12	- 11	+ 9
13	2	8	8	7	11	9	84	11	13
16	9	10	18	17	12	9	6	3	5
÷ 4	+ 3	- 6	÷ 9	- 11	÷ 6	- 6	+ 3	+ 8	+ 11
4	12	4	2	6	2	3	9	11	16
2	10	8	5	10	1	11	9	60	9
+ 6	- 8	÷ 8	+ 2	× 8	+ 11	- 10	+ 4	÷ 10	- 2
8	2	1	7	80	12	1	13	6	7
11	30	6	14	8	16	9	23	10	6
+ 9	÷ 5	+ 8	- 7	+ 10	- 6	+ 11	- 12	× 1	+ 7
20	6	14	7	18	10	20	11	10	13
49	9	12	10	8	4	3	18	2	2
÷ 7	+ 9	+ 10	- 8	× 4	× 7	× 6	- 7	+ 2	+ 12
7	18	22	2	32	28	18	11	4	14

All Operations (B) Answers

Find each sum, difference, product, or quotient.

8	96	4	10	4	10	8	12	6	16
× 12	÷ 12	+ 8	- 5	+ 6	+ 5	- 5	+ 4	× 1	- 6
96	8	12	5	10	15	3	16	6	10
9	45	14	4	15	10	19	8	77	1
+ 9	÷ 9	- 3	+ 5	- 4	× 11	- 7	- 7	÷ 11	+ 7
18	5	11	9	11	110	12	1	7	8
12	1	72	6	6	4	13	3	10	23
- 2	× 8	÷ 12	+ 9	- 4	× 9	- 8	+ 4	+ 6	- 11
10	8	6	15	2	36	5	7	16	12
22	14	66	6	35	2	10	15	8	3
- 11	- 8	÷ 6	÷ 6	÷ 7	+ 8	× 10	- 4	× 2	+ 10
11	6	11	1	5	10	100	11	16	13
24	17	7	4	8	1	3	9	12	22
÷ 4	- 5	× 7	+ 7	÷ 4	+ 1	+ 6	÷ 9	+ 11	- 11
6	12	49	11	2	2	9	1	23	11
1	6	14	8	3	18	9	3	12	15
+ 7	- 1	- 5	- 4	× 2	÷ 6	÷ 9	× 1	- 4	÷ 5
8	5	9	4	6	3	1	3	8	3
17	40	6	72	2	3	24	3	3	22
- 10	÷ 4	+ 2	÷ 9	× 10	+ 3	÷ 12	× 8	× 4	- 11
7	10	8	8	20	6	2	24	12	11
8	12	6	20	18	9	55	3	12	8
+ 5	+ 9	+ 4	- 9	- 12	- 2	÷ 5	+ 11	- 8	× 5
13	21	10	11	6	7	11	14	4	40
12	10	19	4	3	23	8	12	12	30
- 10	- 5	- 7	× 1	× 11	- 12	× 1	÷ 4	- 8	÷ 3
2	5	12	4	33	11	8	3	4	10
21	13	5	6	12	9	5	11	7	9
÷ 3	- 10	× 6	+ 1	+ 10	- 8	+ 7	+ 4	+ 10	× 2
7	3	30	7	22	1	12	15	17	18

All Operations (C) Answers

Find each sum, difference, product, or quotient.

50	10	16	45	11	7	14	1	1	4
÷ 5	- 1	÷ 2	÷ 5	+ 3	× 3	- 5	× 3	× 1	× 12
10	9	8	9	14	21	9	3	1	48
10	15	22	4	3	11	3	18	7	24
× 1	- 11	÷ 11	× 6	× 10	+ 4	× 8	- 12	+ 8	÷ 4
10	4	2	24	30	15	24	6	15	6
19	16	16	21	84	9	10	8	14	33
- 12	- 6	- 11	- 9	÷ 12	- 7	- 9	× 10	- 4	÷ 11
7	10	5	12	7	2	1	80	10	3
10	1	5	4	5	4	11	4	7	8
- 5	× 10	+ 5	× 9	- 3	+ 2	× 5	× 3	× 8	× 2
5	10	10	36	2	6	55	12	56	16
8	7	11	5	2	12	1	11	3	42
- 5	- 5	- 4	- 2	+ 4	× 11	× 7	+ 8	+ 8	÷ 6
3	2	7	3	6	132	7	19	11	7
42	1	12	11	8	84	13	45	12	8
÷ 7	+ 4	÷ 2	+ 11	× 4	÷ 7	- 6	÷ 9	× 4	× 3
6	5	6	22	32	12	7	5	48	24
11	5	9	77	7	6	80	13	8	60
× 8	÷ 1	× 2	÷ 7	× 12	× 8	÷ 10	- 6	- 2	÷ 5
88	5	18	11	84	48	8	7	6	12
1	12	10	3	15	12	3	3	17	33
× 12	× 1	÷ 2	× 8	÷ 5	+ 4	+ 5	× 8	- 9	÷ 3
12	12	5	24	3	16	8	24	8	11
11	7	11	10	1	9	8	8	14	5
× 7	+ 1	× 9	- 2	× 12	÷ 1	× 12	+ 2	÷ 2	× 6
77	8	99	8	12	9	96	10	7	30
11	90	2	8	21	10	1	9	20	14
- 7	÷ 9	× 6	- 1	÷ 7	+ 6	× 4	+ 11	- 9	- 4
4	10	12	7	3	16	4	20	11	10

All Operations (D) Answers

Find each sum, difference, product, or quotient.

9	9	12	9	1	90	8	9	27	50
÷ 3	× 7	÷ 2	- 5	× 2	÷ 9	× 9	× 1	÷ 3	÷ 5
3	63	6	4	2	10	72	9	9	10
28	20	14	60	1	6	12	10	1	3
÷ 4	- 12	- 2	÷ 6	× 4	+ 8	+ 7	- 6	+ 4	+ 11
7	8	12	10	4	14	19	4	5	14
6	6	60	7	2	13	8	21	5	1
+ 1	+ 10	÷ 12	+ 3	+ 9	- 9	- 1	÷ 7	× 10	× 3
7	16	5	10	11	4	7	3	50	3
28	8	4	24	9	10	11	11	84	2
÷ 4	+ 3	- 1	÷ 3	+ 11	+ 1	× 6	- 3	÷ 7	- 1
7	11	3	8	20	11	66	8	12	1
10	2	18	8	12	7	9	13	12	10
- 4	+ 1	- 8	- 3	+ 12	+ 8	- 3	- 9	× 12	× 8
6	3	10	5	24	15	6	4	144	80
81	22	14	11	33	20	10	8	1	48
÷ 9	- 11	÷ 7	- 6	÷ 11	÷ 10	÷ 2	× 10	× 8	÷ 8
9	11	2	5	3	2	5	80	8	6
23	70	7	7	12	12	3	16	7	2
- 12	÷ 7	× 9	× 2	× 6	- 10	× 3	- 10	- 2	+ 9
11	10	63	14	72	2	9	6	5	11
10	5	9	7	5	15	21	4	12	12
× 2	× 11	× 4	× 6	+ 3	- 3	- 12	× 6	÷ 6	× 10
20	55	36	42	8	12	9	24	2	120
54	7	8	27	7	7	13	9	11	5
÷ 6	× 10	× 4	÷ 9	+ 7	÷ 7	- 3	+ 11	+ 1	+ 4
9	70	32	3	14	1	10	20	12	9
12	8	14	10	16	11	9	2	10	3
- 9	+ 3	- 10	× 1	- 4	+ 12	÷ 9	× 5	× 2	× 6
3	11	4	10	12	23	1	10	20	18

Pg. 117 - 118 Key- Spaced Review

① (a) $A = L \times W$

$A = 8 \times 192$

$A = 1536\ u^2$

(b) $P = 192 + 8 + 192 + 8$

$P = 400$ units

(2a) $6(9+1)$

$6(10)$

60

(2b) $(14+3)7$

$(17)7$

119

(2c) $\frac{1}{2}(7+10)$

$\frac{1}{2}(17)$

$\frac{1}{2} \cdot \frac{17}{1} = \frac{17}{2} = 8\frac{1}{2}$

(3a) 6 (3b) 6 (4a) 60 (4b) 72

(5a) $36 = 6 \cdot 6 = 2 \cdot 3 \cdot 2 \cdot 3$

$2 \cdot 2 \cdot 3 \cdot 3$

(5b) $60 = 6 \cdot 10 = 2 \cdot 3 \cdot 2 \cdot 5$

$2 \cdot 2 \cdot 3 \cdot 5$

⑥ (a) $\frac{2}{3} \times \frac{4}{9} = \frac{8}{27}$

(b) $\frac{1}{6} \times \frac{12}{13} = \frac{2}{13}$

⑦ $60 \div 3\frac{1}{2}$

$\frac{60}{1} \div \frac{7}{2}$

$\frac{60}{1} \times \frac{2}{7} = \frac{120}{7} = 17\frac{1}{7}$

about 17

$7 \overline{)120}$ R 1

-7

50

-49

1

⑧ $\frac{11}{12} \div \frac{1}{6} = \frac{11}{12} \times \frac{6}{1} = \frac{11}{2} = 5\frac{1}{2}$

5 handkerchiefs

⑨ $A = L \times W$

$A = 14 \times 14$

$A = 196\ cm^2$

⑩ skip

⑪ Big Rectangle $= 9 \times 12 = 108$

tri $= \frac{9 \times 5}{2} = \frac{45}{2} = 22.5$

trap $= \frac{(6+7) \times 4}{2} = \frac{13 \times 4}{2} = \frac{52}{2} = 26$

22.5

$+26$

48.5

108

-48.5

$59.5\ cm^2$

(12) $V = L \times W \times H$

$V = 5 \times 3\frac{1}{2} \times 2\frac{3}{4}$

$\frac{5}{1} \times \frac{7}{2} \times \frac{11}{4} = \frac{385}{8} = 48\frac{1}{8}\ in^3$

$8\overline{)385}$ → 48, -32, 65, -64, 1

(13) $A = \frac{(b_1 + b_2) \times h}{2}$

$A = \frac{(15+6) \times 8}{2}$

$A = \frac{21 \times 8}{2} = \frac{168}{2} = 84\ ft^2$

(14) $A = \frac{b \cdot h}{2}$

$A = \frac{4 \times 4\frac{1}{2}}{2} = \frac{4}{1} \times \frac{9}{2} = \frac{36}{2} = \frac{18}{2} = 9\ m^2$

(15) $A = b \cdot h$

$A = 20 \times 4\frac{1}{2}$

$A = \frac{20}{1} \times \frac{9}{2} = = \frac{180}{2} = 90\ ft^2$

(16) $A_{rec_1} = b \cdot h$ $A_{rec_2} = b \cdot h$

$= 4 \cdot 6$ $= 16 \cdot 6$

$= 24$ $= 96$

96

$+24$

120 $120\ m^2$