Warm Up Grade 8

Sept. 15

1) John earns 2.56 million in his first year of work. His second year he earns 0.6 million, third year 1.025 million and 4th year 3 million.

a) How much does John make in total in his first 4 years?

a)
$$\begin{array}{r} {\scriptstyle 1\ 1\ \ \ \ \ \ } \\ 2.560 \\ 0.600 \\ 1.025 \\ +\ 3.000 \\ \hline 7.185 \end{array}$$

John's total earning was 7.185 million.

b)
$$\begin{array}{r} {\scriptstyle 2\ \ \ \ \ \ } \\ 3.10 \\ -\ 0.6 \\ \hline 2.4 \end{array}$$

From his highest paying year to his lowest paying year the was a differences of 2.4 million.

Extra Practice 3 Solutions

1) a)
$$\begin{array}{r} {\scriptstyle 1}{\scriptstyle 1}{\scriptstyle 1} \\ 9.043 \\ 0.900 \\ +\ 1.150 \\ \hline 11.093 \end{array}$$

1b)
$$\begin{array}{r} {\scriptstyle 1} \\ 2.09 \\ 4.60 \\ +\ 1.80 \\ \hline 8.49 \end{array}$$

1c)
$$\begin{array}{r} 9.6 \\ -\ 7.4 \\ \hline 2.2 \end{array}$$

1d)
$$\begin{array}{r} {\scriptstyle 4}\cancel{5}{\scriptstyle 1}0.{\scriptstyle 3}\cancel{4}{\scriptstyle 1}0 \\ -\ 5.04 \\ \hline 45.36 \end{array}$$

2) a)
$$\begin{array}{r} {\scriptstyle 1}{\scriptstyle 1} \\ 7.56 \\ 0.07 \\ +122.70 \\ \hline 130.33 \end{array}$$

2b)
$$\begin{array}{r} {\scriptstyle 6}\cancel{7}{\scriptstyle 1}.85 \\ -\ 6.93 \\ \hline 0.92 \end{array}$$

2c)
$$\begin{array}{r} 1\cancel{2}.{\scriptstyle 1}\cancel{1}{\scriptstyle 2}0 \\ -\ 1.68 \\ \hline 0.52 \end{array}$$

2d)
$$\begin{array}{r} {\scriptstyle 1}{\scriptstyle 1} \\ 83.07 \\ 0.42 \\ +\ 7.70 \\ \hline 91.19 \end{array}$$

$$\begin{array}{r} 2 \\ -2 \\ \hline 0 \end{array}$$

$$\begin{array}{r} {\scriptstyle 1} \\ 83 \\ 0 \\ +\ 8 \\ \hline 91 \end{array}$$

3)
$$\begin{array}{r} {\scriptstyle 1} \\ 3.60 \\ 1.70 \\ 3.00 \\ +\ 2.28 \\ \hline 10.58 \end{array}$$

Total mass Althea had to carry was 10.58kg

4)
$$\begin{array}{r} {\scriptstyle 8\ 1} \\ 189.4 \\ -156.7 \\ \hline 32.7 \end{array}$$

The scenic Route is 32.7 km longer.

5)

Edmonton	$1.147
Victoria	1.234

$$\begin{array}{r} {\scriptstyle 12\ 3\ 4} \\ 1.234 \\ -\ 1.147 \\ \hline 0.087 \end{array}$$

≈ 0.09

nearest cent

$$\begin{array}{r} {\scriptstyle 1\ 1\ 3} \\ 1.213 \\ -\ 1.15 \\ \hline 0.08 \end{array}$$

6) Many Answers

$$\begin{array}{r} 254.791 \\ -\ 10.600 \\ \hline 244.191 \end{array}$$

So

$$\begin{array}{r} 244.191 \\ +\ 10.600 \\ \hline 254.791 \end{array}$$

7b)
$$\begin{array}{r} {\scriptstyle 1} \\ 2.350 \\ +4.256 \\ \hline 6.606 \end{array}$$

~~4.256~~
~~+ 2.35~~

a) They did not line up the decimal places

Review of Multiplication of whole numbers

To multiply a 2-digit number by a 1-digit number, follow these :

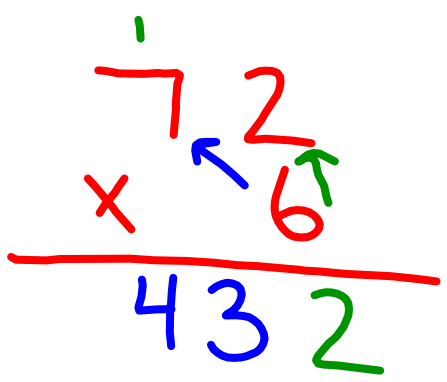
1. Write the LONGER number as the top number and the SHORTER number as the bottom number

2. MUST line up the LAST NUMBERS.

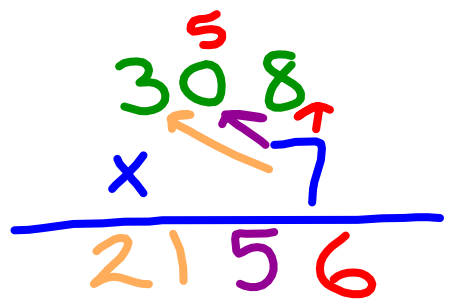
3. Multiply the bottom number (1-digit) by each digit of the top number (2-digit) one at a time, starting from the rightmost (ones place) digit.

4. After multiplying by each digit of the top number, add all the partial products.

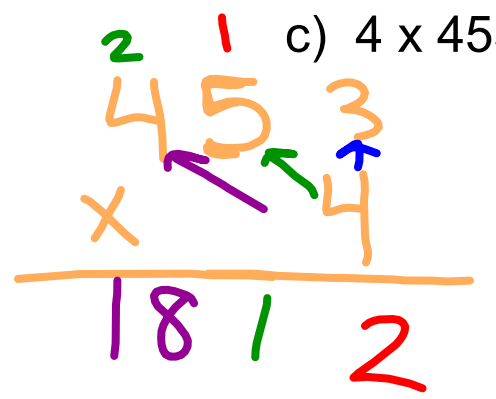
a) 72 x 6



b) 308 x 7



c) 4 x 453



Review of Multiplication of whole numbers

To multiply a 2-digit number by a 2-digit number, follow these :

1.Write the LONGER number as the top number and the SHORTER number as the bottom number

2.MUST line up the LAST NUMBERS.

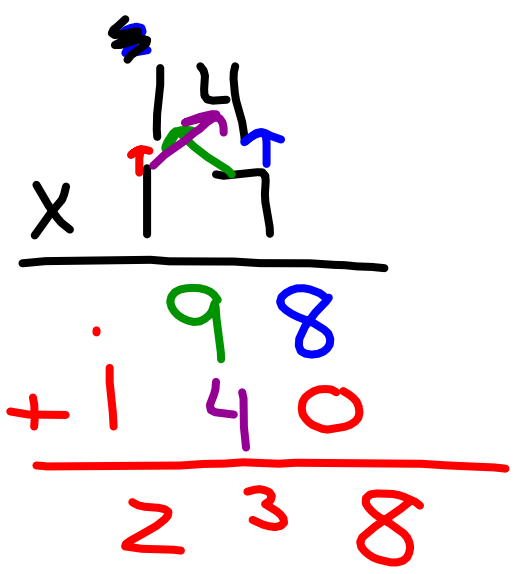
3.Multiply the bottom number (LAST-digit) by each digit of the top number (2-digit) one at a time, starting from the rightmost (ones place) digit.

4.NOW need to put a place holder '0' on second row in the rightmost position, since we re goind to multiply by the 'tens' place of the second row.

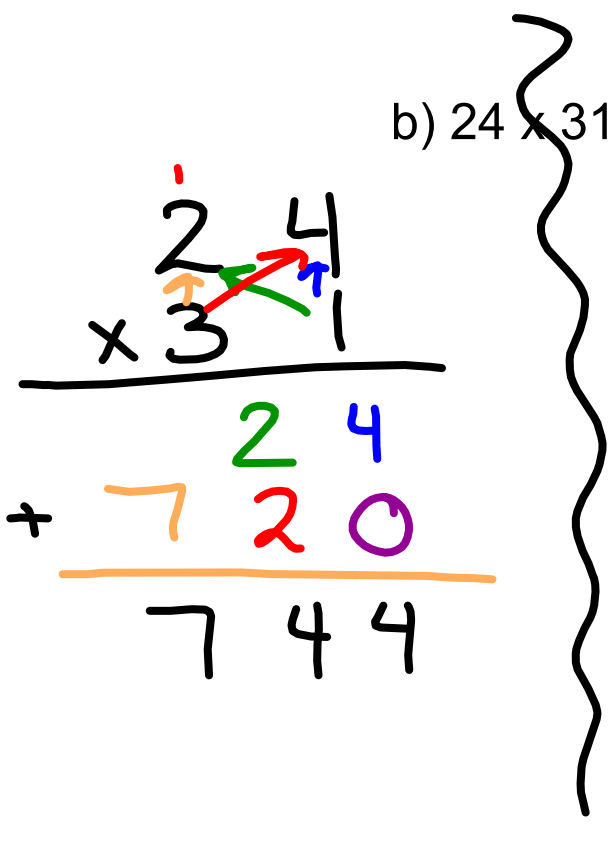
5.Multiply the bottom number (first-digit of bottom #) by each digit of the top number (2-digit) one at a time, starting from the rightmost (ones place) digit.

6.After multiplying by each digit of the top number, add all the partial products.

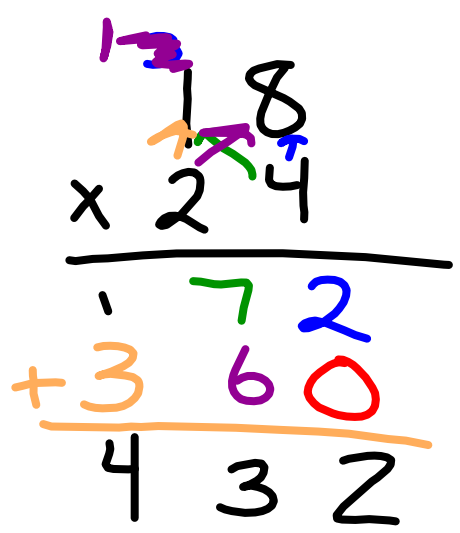
a) 14 x 17



b) 24 x 31



c) 18 x 2



Name:_____ WS Gr 8 u2 Int/ord day 6 mult review

2-Digit by 1-Digit Multiplication (A)

Use the grid to help you multiply each pair of factors.

	5	3
×		9

	9	3
×		3

	8	9
×		5

	7	3
×		7

	9	0
×		4

	3	7
×		5

	5	9
×		8

	3	6
×		8

	9	2
×		7

	9	7
×		7

	1	5
×		6

	9	7
×		9

	2	4
×		7

	2	1
×		2

	1	6
×		3

	4	6
×		7

	2	1
×		3

	9	5
×		6

	2	2
×		8

	6	6
×		3

	4	0
×		3

	4	3
×		3

	3	4
×		6

	5	9
×		3

	5	9
×		9

	4	8
×		7

	8	7
×		5

	6	1
×		3

	1	5
×		4

	1	7
×		5

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2-Digit by 2-Digit Multiplication (A)

Use the grid to help you multiply each pair of factors.

		8	2
	×	4	1

		4	4
	×	4	2

		2	5
	×	1	0

		9	3
	×	8	6

		7	2
	×	8	7

		4	3
	×	1	0

		6	2
	×	5	2

		5	6
	×	9	6

		9	1
	×	4	7

		9	4
	×	8	3

		7	5
	×	1	3

		3	4
	×	9	8

		2	3
	×	4	8

		4	4
	×	6	2

		7	9
	×	9	7

		9	9
	×	6	5

KEY

2-Digit by 1-Digit Multiplication (A)

Use the grid to help you multiply each pair of factors.

	2	
	5	3
×		9
4	7	7

	9	3
×		3
2	7	9

	4	
	8	9
×		5
4	4	5

	2	
	7	3
×		7
5	1	1

	9	0
×		4
3	6	0

	3	
	3	7
×		5
1	8	5

	7	
	5	9
×		8
4	7	2

	4	
	3	6
×		8
2	8	8

	1	
	9	2
×		7
6	4	4

	4	
	9	7
×		7
6	7	9

	3	
	1	5
×		6
	9	0

	6	
	9	7
×		9
8	7	3

	2	
	2	4
×		7
1	6	8

	2	1
×		2
	4	2

	1	
	1	6
×		3
	4	8

	4	
	4	6
×		7
3	2	2

	2	1
×		3
	6	3

	3	
	9	5
×		6
5	7	0

	1	
	2	2
×		8
1	7	6

	1	
	6	6
×		3
1	9	8

	4	0
×		3
1	2	0

	4	3
×		3
1	2	9

	2	
	3	4
×		6
2	0	4

	2	
	5	9
×		3
1	7	7

	8	
	5	9
×		9
5	3	1

	5	
	4	8
×		7
3	3	6

	3	
	8	7
×		5
4	3	5

	6	1
×		3
1	8	3

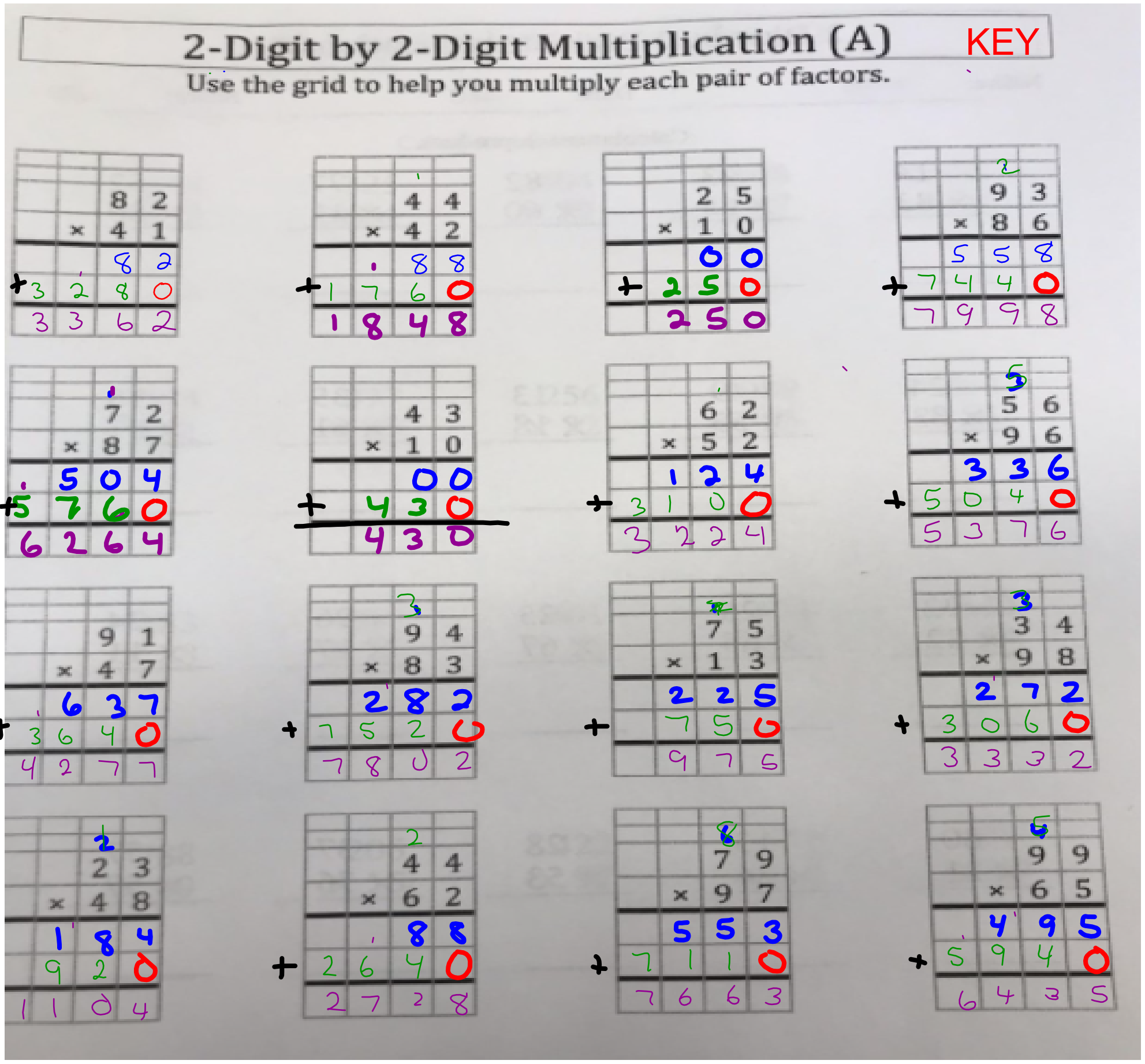
	2	
	1	5
×		4
	6	0

	3	
	1	7
×		5
	8	5

2-Digit by 2-Digit Multiplication (A)

KEY

Use the grid to help you multiply each pair of factors.



2-Digit by 2-Digit Multiplication (A)

Name: _____ Date: _____ Score: ____ /20

Calculate each product.

14 × 83	93 × 65	82 × 60	77 × 11	52 × 80
24 × 83	49 × 55	13 × 18	35 × 61	15 × 51
92 × 32	25 × 65	25 × 67	96 × 17	24 × 11
60 × 21	13 × 34	28 × 53	37 × 76	57 × 57

3-Digit by 2-Digit Multiplication (A)

Name: _____ Date: _____ Score: ____ /20

Calculate each product.

435 × 72	325 × 54	804 × 79	908 × 47	905 × 80
394 × 71	977 × 45	256 × 32	989 × 55	284 × 81
183 × 38	592 × 78	501 × 36	428 × 57	640 × 54
788 × 49	205 × 15	422 × 97	169 × 48	891 × 87

2-Digit by 2-Digit Multiplication (A)

Name: Key Date: _____ Score: ____ /20

Calculate each product.

14 × 83 = 1162	93 × 65 = 6045	82 × 60 = 4920	77 × 11 = 847	52 × 80 = 4160
24 × 83 = 1992	49 × 55 = 2695	13 × 18 = 234	35 × 61 = 2135	15 × 51 = 765
92 × 32 = 2944	25 × 65 = 1625	25 × 67 = 1675	96 × 17 = 1632	24 × 11 = 264
60 × 21 = 1260	13 × 34 = 442	28 × 53 = 1484	37 × 76 = 2812	57 × 57 = 3249

3-Digit by 2-Digit Multiplication (A)

Name: Key Date: Score: /20

Calculate each product.

435 × 72 = 31320	325 × 54 = 17550	804 × 79 = 63516	908 × 47 = 42676	905 × 80 = 72400
394 × 71 = 27974	977 × 45 = 43965	256 × 32 = 8192	989 × 55 = 54395	284 × 81 = 23004
183 × 38 = 6954	592 × 78 = 46176	501 × 36 = 18036	428 × 57 = 24396	640 × 54 = 34560
788 × 49 = 38612	205 × 15 = 3075	422 × 97 = 40934	169 × 48 = 8112	891 × 87 = 77517