

Double Digit Multiplication

The numbers being multiplied together are called factors.

The top factor is called the multiplicand.

The bottom factor is called the multiplier.

the answer to a multiplication problem is called the product.

Each digit in the top top number (multiplicand) must be multiplied by each digit in bottom number (multiplier.)

In the problem below, look at the number 13. The digit 1 (in the ten's place) as well as the 3 digit (in the one's place), must be multiplied by our second factor (multiplier) three.

$$\begin{array}{r} 13 \\ \times 3 \\ \hline \end{array}$$

Always start with the
one's column.
Multiply it first.
 $3 \times 3 = 9$

$$\begin{array}{r} 13 \\ \times 3 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 13 \\ \times 3 \\ \hline 9 \end{array}$$

Now multiply the ten's
column.
 $1 \times 3 = 3$

$$\begin{array}{r} 13 \\ \times 3 \\ \hline 39 \end{array}$$

Double Digit Multiplication

HINT:

Always start with the one's column.
Multiply it first.

$$\begin{array}{r|l} 12 & \\ \times 3 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 12 & \\ \times 4 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 11 & \\ \times 3 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 10 & \\ \times 2 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 14 & \\ \times 2 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 11 & \\ \times 4 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 11 & \\ \times 2 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 13 & \\ \times 2 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 10 & \\ \times 3 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 12 & \\ \times 2 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 10 & \\ \times 4 & \\ \hline & \\ | & \end{array}$$

$$\begin{array}{r|l} 13 & \\ \times 3 & \\ \hline & \\ | & \end{array}$$

Double Digit Multiplication With Carrying

Multiply the top factor by the bottom factor.
 Carry or (regroup) to the ten's column.
 Don't forget to add what you carry.

$$\begin{array}{r} 13 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ 13 \\ \times 4 \\ \hline 2 \end{array}$$

Always start with the one's column.

Multiply it first.

$$3 \times 4 = 12$$

Carry the 1 to the ten's column.

(It's like the carrying you do when you are adding.)

Now multiply the ten's column.

$$1 \times 4 = 4$$

Now we add the 1 that we carried to the ten's column.

$$1 \times 4 + 1 = 5$$

$$\begin{array}{r} 1 \\ 13 \\ \times 4 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 1 \\ 13 \\ \times 4 \\ \hline 52 \end{array}$$

Double Digit Multiplication

HINT:

Always start with the one's column.
Don't forget to carry.

$$\begin{array}{r} \square \\ 12 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 12 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 16 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 17 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 24 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 15 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 13 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 13 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 22 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 12 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 23 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 17 \\ \times 3 \\ \hline \end{array}$$

Double Digit Multiplication

HINT:

Always start with the one's column.
Don't forget to carry.

$$\begin{array}{r} \square \\ 13 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 17 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 14 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 17 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 14 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 15 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 19 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 14 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 12 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 22 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 33 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 27 \\ \times 5 \\ \hline \end{array}$$

Double Digit Multiplication

HINT:

Always start with the one's column.
Don't forget to carry.

$$\begin{array}{r} \square \\ 33 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 47 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 14 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 22 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 44 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 35 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 59 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 84 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 62 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 75 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 43 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 77 \\ \times 3 \\ \hline \end{array}$$

Double Digit Multiplication

HINT:

Always start with the one's column.
Don't forget to carry.

$$\begin{array}{r} \square \\ 53 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 73 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 64 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 45 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 84 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 95 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 52 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 87 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 52 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 46 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 63 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} \square \\ 99 \\ \times 3 \\ \hline \end{array}$$

Double Digit Multiplication

Multiply the top factor by the bottom factor.

Carry or (regroup) to the ten's column.

Don't forget to add what you carry.

When multiplying the factors on the bottom in ten's column,
skip a space.

$$\begin{array}{r} 13 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ 13 \\ \times 14 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 1 \\ \uparrow 13 \\ \times 14 \\ \hline 52 \\ 130 \\ \hline \end{array}$$

Always start with the
one's column.

Multiply it first.

$$3 \times 4 = 12$$

Carry the 1 to the
ten's column.

(It's like the carrying
you do when you are
adding.)

Now multiply the ten's
column.

$$1 \times 4 = 4$$

Now we add the 1 that
we carried to the ten's
column.

$$1 \times 4 + 1 = 5$$

Skip one space to the
left (A zero may be
added to help you
remember.) and multiply
the top number 13 by 1.

$$\begin{array}{r} 1 \times 3 = 3 \\ 1 \times 1 = 1 \end{array}$$

Now we add,

$$\begin{array}{r} 1 \\ 13 \\ \times 14 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 1 \\ 13 \\ \times 14 \\ \hline 52 \end{array}$$

$$\begin{array}{r} 1 \\ 13 \\ \times 14 \\ \hline 52 \\ + 130 \\ \hline 182 \end{array}$$

Double Digit Multiplication

x	53	24

x	25	19

x	53	46

x	63	44

x	34	28

x	36	32

x	93	22

x	34	25

x	44	33

Double Digit Multiplication

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	<input type="text"/>	
x	34	
	34	
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	<input type="text"/>	
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x	52	
	29	
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	<input type="text"/>	
	<input type="text"/>	
x	63	
	58	
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	<input type="text"/>	
	<input type="text"/>	
x	85	
	62	
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	<input type="text"/>	
	<input type="text"/>	
x	74	
	53	
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	<input type="text"/>	
	<input type="text"/>	
x	92	
	28	
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	<input type="text"/>	
	<input type="text"/>	
x	45	
	25	
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	<input type="text"/>	
	<input type="text"/>	
x	43	
	35	
<hr/>		
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	<input type="text"/>	
	<input type="text"/>	
x	19	
	19	
<hr/>		
<hr/>		
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Double Digit Multiplication

	□	
	□	
x	64	
	26	

	□	
	□	
x	73	
	34	

	□	
	□	
x	68	
	58	

	□	
	□	
x	53	
	15	

	□	
	□	
x	99	
	22	

	□	
	□	
x	28	
	26	

	□	
	□	
x	94	
	33	

	□	
	□	
x	29	
	72	

	□	
	□	
x	28	
	22	

Double Digit Multiplication

Answers 1

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 12 \\ \times 4 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 14 \\ \times 2 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 11 \\ \times 2 \\ \hline 22 \end{array}$$

$$\begin{array}{r} 13 \\ \times 2 \\ \hline 26 \end{array}$$

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$$

$$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 13 \\ \times 3 \\ \hline 39 \end{array}$$

Double Digit Multiplication

Answers 2

$$\begin{array}{r} \boxed{1} \\ 12 \\ \times 6 \\ \hline 72 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 12 \\ \times 5 \\ \hline 60 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 16 \\ \times 3 \\ \hline 48 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 17 \\ \times 2 \\ \hline 34 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 24 \\ \times 4 \\ \hline 96 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 15 \\ \times 4 \\ \hline 60 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 13 \\ \times 5 \\ \hline 65 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 13 \\ \times 7 \\ \hline 91 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 22 \\ \times 8 \\ \hline 176 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 12 \\ \times 9 \\ \hline 108 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 23 \\ \times 4 \\ \hline 92 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 17 \\ \times 3 \\ \hline 51 \end{array}$$

Double Digit Multiplication

Answers 3

$$\begin{array}{r} \boxed{1} \\ 13 \\ \times 6 \\ \hline 78 \end{array}$$

$$\begin{array}{r} \boxed{3} \\ 17 \\ \times 5 \\ \hline 85 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 14 \\ \times 6 \\ \hline 84 \end{array}$$

$$\begin{array}{r} \boxed{3} \\ 17 \\ \times 5 \\ \hline 85 \end{array}$$

$$\begin{array}{r} \boxed{3} \\ 14 \\ \times 8 \\ \hline 112 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 15 \\ \times 5 \\ \hline 75 \end{array}$$

$$\begin{array}{r} \boxed{4} \\ 19 \\ \times 5 \\ \hline 95 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 14 \\ \times 7 \\ \hline 98 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 12 \\ \times 8 \\ \hline 96 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 22 \\ \times 9 \\ \hline 198 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 33 \\ \times 4 \\ \hline 132 \end{array}$$

$$\begin{array}{r} \boxed{3} \\ 27 \\ \times 5 \\ \hline 135 \end{array}$$

Double Digit Multiplication

Answers 4

$$\begin{array}{r} \boxed{1} \\ 33 \\ \times 6 \\ \hline 198 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 47 \\ \times 4 \\ \hline 188 \end{array}$$

$$\begin{array}{r} \boxed{4} \\ 14 \\ \times 8 \\ \hline 112 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 22 \\ \times 5 \\ \hline 110 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 44 \\ \times 4 \\ \hline 176 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 35 \\ \times 5 \\ \hline 175 \end{array}$$

$$\begin{array}{r} \boxed{4} \\ 59 \\ \times 5 \\ \hline 295 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 84 \\ \times 3 \\ \hline 252 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 62 \\ \times 8 \\ \hline 496 \end{array}$$

$$\begin{array}{r} \boxed{4} \\ 75 \\ \times 9 \\ \hline 675 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 43 \\ \times 4 \\ \hline 172 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 77 \\ \times 3 \\ \hline 231 \end{array}$$

Double Digit Multiplication

Answers 5

$$\begin{array}{r} \boxed{1} \\ 53 \\ \times 4 \\ \hline 212 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 73 \\ \times 5 \\ \hline 365 \end{array}$$

$$\begin{array}{r} \boxed{3} \\ 64 \\ \times 8 \\ \hline 512 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 45 \\ \times 5 \\ \hline 225 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 84 \\ \times 3 \\ \hline 252 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 95 \\ \times 5 \\ \hline 475 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 52 \\ \times 5 \\ \hline 260 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 87 \\ \times 4 \\ \hline 348 \end{array}$$

$$\begin{array}{r} \boxed{1} \\ 52 \\ \times 8 \\ \hline 416 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 46 \\ \times 4 \\ \hline 184 \end{array}$$

$$\begin{array}{r} \boxed{2} \\ 63 \\ \times 7 \\ \hline 441 \end{array}$$

$$\begin{array}{r} \boxed{3} \\ 99 \\ \times 3 \\ \hline 297 \end{array}$$

Double Digit Multiplication

Answers 6

$$\begin{array}{r}
 \square \\
 1 \\
 \hline
 \begin{array}{r}
 53 \\
 \times 24 \\
 \hline
 212 \\
 106 \\
 \hline
 1272
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \square \\
 4 \\
 \hline
 \begin{array}{r}
 25 \\
 \times 19 \\
 \hline
 225 \\
 25 \\
 \hline
 475
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \cancel{1} \\
 \hline
 \begin{array}{r}
 53 \\
 \times 46 \\
 \hline
 318 \\
 212 \\
 \hline
 2438
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \cancel{1} \\
 \hline
 \begin{array}{r}
 63 \\
 \times 44 \\
 \hline
 252 \\
 252 \\
 \hline
 2772
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \square \\
 3 \\
 \hline
 \begin{array}{r}
 34 \\
 \times 28 \\
 \hline
 272 \\
 68 \\
 \hline
 952
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \cancel{1} \\
 \hline
 \begin{array}{r}
 36 \\
 \times 32 \\
 \hline
 72 \\
 108 \\
 \hline
 1152
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \square \\
 \square \\
 \hline
 \begin{array}{r}
 93 \\
 \times 22 \\
 \hline
 186 \\
 186 \\
 \hline
 2046
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \square \\
 2 \\
 \hline
 \begin{array}{r}
 34 \\
 \times 25 \\
 \hline
 170 \\
 + 68 \\
 \hline
 850
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \cancel{1} \\
 \hline
 \begin{array}{r}
 44 \\
 \times 33 \\
 \hline
 132 \\
 132 \\
 \hline
 1452
 \end{array}
 \end{array}$$

Double Digit Multiplication

Answers 7

$$\begin{array}{r}
 \boxed{1} \\
 \cancel{\boxed{1}} \\
 \begin{array}{r}
 34 \\
 \times 34 \\
 \hline
 136 \\
 102 \\
 \hline
 1156
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \boxed{} \\
 \boxed{1} \\
 \begin{array}{r}
 52 \\
 \times 29 \\
 \hline
 468 \\
 104 \\
 \hline
 1508
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \boxed{1} \\
 \cancel{\boxed{2}} \\
 \begin{array}{r}
 63 \\
 \times 58 \\
 \hline
 504 \\
 315 \\
 \hline
 3654
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \boxed{3} \\
 \cancel{\boxed{1}} \\
 \begin{array}{r}
 85 \\
 \times 62 \\
 \hline
 170 \\
 510 \\
 \hline
 5270
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \boxed{2} \\
 \cancel{\boxed{1}} \\
 \begin{array}{r}
 74 \\
 \times 53 \\
 \hline
 222 \\
 370 \\
 \hline
 3922
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \boxed{} \\
 \boxed{1} \\
 \begin{array}{r}
 92 \\
 \times 28 \\
 \hline
 736 \\
 184 \\
 \hline
 2576
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \boxed{1} \\
 \cancel{\boxed{2}} \\
 \begin{array}{r}
 45 \\
 \times 25 \\
 \hline
 225 \\
 90 \\
 \hline
 1125
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \boxed{} \\
 \boxed{1} \\
 \begin{array}{r}
 43 \\
 \times 35 \\
 \hline
 215 \\
 129 \\
 \hline
 1505
 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \boxed{} \\
 \boxed{1} \\
 \begin{array}{r}
 19 \\
 \times 19 \\
 \hline
 171 \\
 19 \\
 \hline
 361
 \end{array}
 \end{array}$$

Double Digit Multiplication

Answers 8

$$\begin{array}{r}
 \square \\
 2 \\
 \times 64 \\
 \hline
 384 \\
 128 \\
 \hline
 1664
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \\
 \times 73 \\
 \hline
 292 \\
 219 \\
 \hline
 2482
 \end{array}$$

$$\begin{array}{r}
 4 \\
 \cancel{8} \\
 \times 68 \\
 \hline
 544 \\
 340 \\
 \hline
 3944
 \end{array}$$

$$\begin{array}{r}
 \square \\
 1 \\
 \times 53 \\
 \hline
 265 \\
 53 \\
 \hline
 795
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \cancel{1} \\
 \times 99 \\
 \hline
 198 \\
 198 \\
 \hline
 2178
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \cancel{4} \\
 \times 28 \\
 \hline
 168 \\
 56 \\
 \hline
 728
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \cancel{1} \\
 \times 94 \\
 \hline
 282 \\
 282 \\
 \hline
 3102
 \end{array}$$

$$\begin{array}{r}
 6 \\
 \cancel{1} \\
 \times 29 \\
 \hline
 58 \\
 203 \\
 \hline
 2088
 \end{array}$$

$$\begin{array}{r}
 1 \\
 \cancel{1} \\
 \times 28 \\
 \hline
 56 \\
 56 \\
 \hline
 616
 \end{array}$$