

6. [× Whole Numbers]

Skill 6.1 Understanding different terms used for multiplication.

MM2.2 1 1 2 2 3 3 4 4
MM3.1 1 1 2 2 3 3 4 4

- Consider the words used with the numbers.

Multiplication is associated with words like: ***multiplied by, lots of, times, groups of, twice as much, product of.***

Q. 3 groups of 2 are

A. $3 \times 2 = 6$

groups of means multiplication

a) 8 multiplied by 5 is

40

b) 3 lots of 5 are

c) 6 times 10 is

d) 7 groups of 2 are

e) 5 times 2 is

f) 6 groups of 5 are

g) 2 lots of 9 are

h) 7 multiplied by 4 is

i) 4 groups of 3 are

j) 8 times 3 is

k) 6 multiplied by 3 is

l) 6 lots of 3 are

m) 4 multiplied by 5 is

n) 3 groups of 7 are

o) 10 times 9 is

p) 5 lots of 7 are

q) 2 groups of 6 are

r) 3 times 5 is

s) 10 multiplied by 6 is

t) 5 lots of 5 are

Multiplying a number by 2

- Add the number to itself. (Doubling)
- Hint: Think of the counting pattern by 2.*

$$\begin{aligned}1 \times 2 &= 2 \\2 \times 2 &= 4 \\3 \times 2 &= 6 \\4 \times 2 &= 8 \\5 \times 2 &= 10 \\6 \times 2 &= 12 \\7 \times 2 &= 14 \\8 \times 2 &= 16 \\9 \times 2 &= 18 \\10 \times 2 &= 20 \\11 \times 2 &= 22 \\12 \times 2 &= 24\end{aligned}$$

Multiplying a number by 4

- Double the number. Double the result.
- Hint: Think of the counting pattern by 4.*

$$\begin{aligned}1 \times 4 &= 4 \\2 \times 4 &= 8 \\3 \times 4 &= 12 \\4 \times 4 &= 16 \\5 \times 4 &= 20 \\6 \times 4 &= 24 \\7 \times 4 &= 28 \\8 \times 4 &= 32 \\9 \times 4 &= 36 \\10 \times 4 &= 40 \\11 \times 4 &= 44 \\12 \times 4 &= 48\end{aligned}$$

Q. $5 \times 4 =$

A. $5 \times 4 = 20$

Double 5 is 10.

Double 10 is 20.

a) $5 \times 2 =$ 10

b) $3 \times 4 =$

c) $6 \times 4 =$

d) $8 \times 2 =$

e) $8 \times 4 =$

f) $4 \times 2 =$

g) $6 \times 2 =$

h) $2 \times 4 =$

i) $4 \times 4 =$

j) $7 \times 2 =$

k) $10 \times 2 =$

l) $7 \times 4 =$

m)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 3 | 6 | 5 | 8 | 4 |
| $\times 2$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

n)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 6 | 2 | 3 | 5 | 4 |
| $\times 4$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Skill 6.3 Multiplying the numbers from 1 to 10 by 3.

MM2.2 1 1 2 2 3 3 4 4
MM3.1 1 1 2 2 3 3 4 4

Hint: Think of the counting pattern by 3.

| | |
|-----------------|-----------|
| $1 \times 3 =$ | 3 |
| $2 \times 3 =$ | 6 |
| $3 \times 3 =$ | 9 |
| $4 \times 3 =$ | 12 |
| $5 \times 3 =$ | 15 |
| $6 \times 3 =$ | 18 |
| $7 \times 3 =$ | 21 |
| $8 \times 3 =$ | 24 |
| $9 \times 3 =$ | 27 |
| $10 \times 3 =$ | 30 |
| $11 \times 3 =$ | 33 |
| $12 \times 3 =$ | 36 |

Q. $6 \times 3 =$

A. $6 \times 3 =$ **18**

a) $5 \times 3 =$ **15**

b) $4 \times 3 =$

c) $1 \times 3 =$

d) $6 \times 3 =$

e) $2 \times 3 =$

f) $8 \times 3 =$

g) $7 \times 3 =$

h) $3 \times 3 =$

i) $10 \times 3 =$

j) $9 \times 3 =$

k) $11 \times 3 =$

l) $12 \times 3 =$

m)

| | | | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|
| | 5 | 4 | 1 | 7 | 9 | |
| $\times 3$ | <input type="text"/> | |

n)

| | | | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|----------------------|--|
| | 6 | 3 | 2 | 8 | 10 | |
| $\times 3$ | <input type="text"/> | |

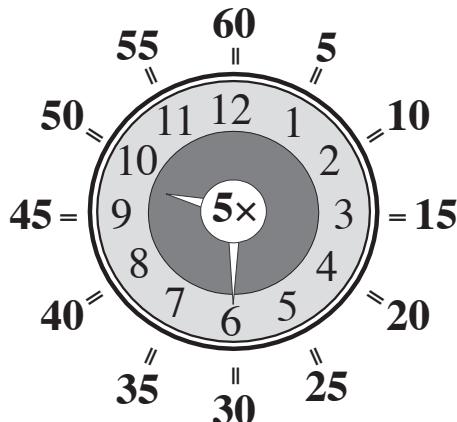
Skill 6.4 Multiplying the numbers from 1 to 10 by 5.

MM2.2 11 22 33 44
MM3.1 11 22 33 44

Hints: Think of the counting pattern by 5.

The last digits in the results are always a 0 or a 5.

Multiplying by 5 produces the same values as the minutes on a clock face.



| | |
|-----------------|-----------|
| $1 \times 5 =$ | 5 |
| $2 \times 5 =$ | 10 |
| $3 \times 5 =$ | 15 |
| $4 \times 5 =$ | 20 |
| $5 \times 5 =$ | 25 |
| $6 \times 5 =$ | 30 |
| $7 \times 5 =$ | 35 |
| $8 \times 5 =$ | 40 |
| $9 \times 5 =$ | 45 |
| $10 \times 5 =$ | 50 |
| $11 \times 5 =$ | 55 |
| $12 \times 5 =$ | 60 |

Q. $6 \times 5 =$

A. $6 \times 5 =$ **30**

a) $5 \times 5 =$ **25**

b) $4 \times 5 =$

c) $1 \times 5 =$

d) $6 \times 5 =$

e) $2 \times 5 =$

f) $8 \times 5 =$

g) $7 \times 5 =$

h) $3 \times 5 =$

i) $10 \times 5 =$

j) $9 \times 5 =$

k) $11 \times 5 =$

l) $12 \times 5 =$

m)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 5 | 4 | 1 | 7 | 9 |
| $\times 5$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

n)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 6 | 3 | 2 | 8 | 10 |
| $\times 5$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Skill 6.5 Multiplying the numbers from 1 to 10 by 6, 7 or 8.

MM2.2 1 2 3 4
MM3.1 1 2 3 4

Hint: Think of the counting pattern by 6.

$$\begin{aligned}1 \times 6 &= 6 \\2 \times 6 &= 12 \\3 \times 6 &= 18 \\4 \times 6 &= 24 \\5 \times 6 &= 30 \\6 \times 6 &= 36 \\7 \times 6 &= 42 \\8 \times 6 &= 48 \\9 \times 6 &= 54 \\10 \times 6 &= 60 \\11 \times 6 &= 66 \\12 \times 6 &= 72\end{aligned}$$

Hint: Think of the counting pattern by 7.

$$\begin{aligned}1 \times 7 &= 7 \\2 \times 7 &= 14 \\3 \times 7 &= 21 \\4 \times 7 &= 28 \\5 \times 7 &= 35 \\6 \times 7 &= 42 \\7 \times 7 &= 49 \\8 \times 7 &= 56 \\9 \times 7 &= 63 \\10 \times 7 &= 70 \\11 \times 7 &= 77 \\12 \times 7 &= 84\end{aligned}$$

Hint: Think of the counting pattern by 8.

$$\begin{aligned}1 \times 8 &= 8 \\2 \times 8 &= 16 \\3 \times 8 &= 24 \\4 \times 8 &= 32 \\5 \times 8 &= 40 \\6 \times 8 &= 48 \\7 \times 8 &= 56 \\8 \times 8 &= 64 \\9 \times 8 &= 72 \\10 \times 8 &= 80 \\11 \times 8 &= 88 \\12 \times 8 &= 96\end{aligned}$$

Q. $6 \times 7 =$

A. $6 \times 7 = 42$

a) $3 \times 8 =$

b) $5 \times 7 =$

c) $8 \times 8 =$

d) $9 \times 6 =$

e) $4 \times 7 =$

f) $6 \times 8 =$

g) $4 \times 6 =$

h) $3 \times 7 =$

i) $2 \times 7 =$

j) $5 \times 8 =$

k)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 5 | 4 | 1 | 7 | 9 |
| $\times 6$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

l)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 6 | 1 | 8 | 7 | 9 |
| $\times 7$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

m)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 7 | 9 | 2 | 4 | 10 |
| $\times 8$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

n)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 6 | 3 | 2 | 8 | 10 |
| $\times 6$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Skill 6.6 Multiplying the numbers from 1 to 10 by 9.

MM2.2 11 22 33 44
MM3.1 11 22 33 44

Hints: Think of the counting pattern by 9.

Apart from 11×9 , the digits in the results always add to 9.

Example: $2 \times 9 = 18 \Rightarrow 1 + 8 = 9$

| | |
|-----------------|------------|
| $1 \times 9 =$ | 9 |
| $2 \times 9 =$ | 18 |
| $3 \times 9 =$ | 27 |
| $4 \times 9 =$ | 36 |
| $5 \times 9 =$ | 45 |
| $6 \times 9 =$ | 54 |
| $7 \times 9 =$ | 63 |
| $8 \times 9 =$ | 72 |
| $9 \times 9 =$ | 81 |
| $10 \times 9 =$ | 90 |
| $11 \times 9 =$ | 99 |
| $12 \times 9 =$ | 108 |

Q. $7 \times 9 =$

A. $7 \times 9 =$ **63**

a) $5 \times 9 =$ **45**

b) $4 \times 9 =$

c) $1 \times 9 =$

d) $6 \times 9 =$

e) $2 \times 9 =$

f) $8 \times 9 =$

g) $7 \times 9 =$

h) $3 \times 9 =$

i) $10 \times 9 =$

j) $9 \times 9 =$

k) $11 \times 9 =$

l) $12 \times 9 =$

m)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 2 | 3 | 7 | 10 | 9 |
| $\times 9$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

n)

| | | | | |
|------------|----------------------|----------------------|----------------------|----------------------|
| 8 | 1 | 6 | 4 | 5 |
| $\times 9$ | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Skill 6.7 Multiplying the numbers from 1 to 10 by 10 or a multiple of 10.

MM2.2 1 1 2 2 3 3 44
MM3.1 1 1 2 3 3 44

Multiplying by 10

- Add a zero to the end of the number.

Example: $6 \times 10 = 60$

$$1 \times 10 = 10$$

$$2 \times 10 = 20$$

$$3 \times 10 = 30$$

$$4 \times 10 = 40$$

$$5 \times 10 = 50$$

$$6 \times 10 = 60$$

$$7 \times 10 = 70$$

$$8 \times 10 = 80$$

$$9 \times 10 = 90$$

$$10 \times 10 = 100$$

$$11 \times 10 = 110$$

$$12 \times 10 = 120$$

Multiplying by a multiple of 10

- Multiply the two numbers, ignoring the zero.

- Add a zero to the end of the result.

Example: $7 \times 30 = 210$

Q. $4 \times 80 =$

A. $4 \times 80 = 320$

$4 \times 8 = 32$

Add a zero after the 32.

a) $30 \times 6 =$ 180

b) $50 \times 9 =$

c) $40 \times 5 =$

d) $7 \times 60 =$

e) $8 \times 70 =$

f) $3 \times 80 =$

g) $90 \times 2 =$

h) $20 \times 6 =$

i) $60 \times 4 =$

j) $6 \times 70 =$

k)

| | | | | | |
|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | 2 | 10 | 4 | 6 | 5 |
| $\times 10$ | <input type="text"/> |

l)

| | | | | | |
|-------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | 1 | 9 | 3 | 7 | 8 |
| $\times 10$ | <input type="text"/> |

Skill 6.8 Multiplying two 1-digit numbers by using the standard algorithm.

MM2.2 11 22 33 44
MM3.1 11 22 33 44

- Write the result of the multiplication with the unit under the 1-digit numbers.

Q.

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

A.

$$\begin{array}{r} \text{tens} \\ 7 \\ \times 6 \\ \hline \text{4} \text{ } \text{2} \end{array}$$

Units:

$$7 \times 6 = 42$$

Unit under units!

a)

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \text{4} \text{ } \text{0} \end{array}$$

b)

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

c)

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

d)

$$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$$

e)

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

f)

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$$

g)

$$\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

h)

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

i)

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

j)

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

k)

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

l)

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

m)

$$\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$$

n)

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

o)

$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

Skill 6.9 Multiplying a 2-digit number by a 1-digit number, by using the standard algorithm and showing the partial sums (1).

MM2.2 1 1 2 2 3 3 4 4
MM3.1 1 1 2 2 3 3 4 4

- Multiply the units by the single digit.
- Write the result with the unit under the 1-digit number.
- Multiply the tens by the single digit.
- Write the new result under the first result, with the unit under the 1-digit number.
- Add the two results from right to left to complete the multiplication.

Q.

$$\begin{array}{r}
 36 \\
 \times 8 \\
 \hline
 \boxed{} \quad \leftarrow 8 \times 6 \text{ units} \\
 + \boxed{} \quad \leftarrow 8 \times 3 \text{ tens} \\
 \hline
 \boxed{}
 \end{array}$$

A.

The diagram shows the multiplication of 36 by 8. It is divided into three vertical columns: 'hundreds', 'tens', and 'units'. The top row contains the numbers 36 and 8. The middle row contains the partial products 48 and 240. The bottom row contains the final sum 288. Arrows point from the labels to the corresponding digits in the partial products and the final sum.

| hundreds | tens | units |
|----------|------|------------|
| 3 | 6 | $\times 8$ |
| | | 48 |
| | | 240 |
| | | 288 |

a)

$$\begin{array}{r}
 25 \\
 \times 7 \\
 \hline
 35 \quad \leftarrow 7 \times 5 \text{ units} \\
 + 140 \quad \leftarrow 7 \times 2 \text{ tens} \\
 \hline
 175
 \end{array}$$

b)

$$\begin{array}{r}
 32 \\
 \times 8 \\
 \hline
 16 \quad \leftarrow 8 \times 2 \text{ units} \\
 + 240 \quad \leftarrow 8 \times 3 \text{ tens} \\
 \hline
 \boxed{}
 \end{array}$$

c)

$$\begin{array}{r}
 59 \\
 \times 4 \\
 \hline
 36 \quad \leftarrow 4 \times 9 \text{ units} \\
 + 200 \quad \leftarrow 4 \times 5 \text{ tens} \\
 \hline
 \boxed{}
 \end{array}$$

d)

$$\begin{array}{r}
 28 \\
 \times 5 \\
 \hline
 40 \quad \leftarrow 5 \times 8 \text{ units} \\
 + 100 \quad \leftarrow 5 \times 2 \text{ tens} \\
 \hline
 \boxed{}
 \end{array}$$

Skill 6.9 Multiplying a 2-digit number by a 1-digit number, by using the standard algorithm and showing the partial sums (2).

MM2.2 11 22 33 44
MM3.1 11 22 33 44

e)
$$\begin{array}{r} 53 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \hline \\ + \\ \hline \end{array}$$

5×3 units

5×5 tens

f)
$$\begin{array}{r} 72 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \hline \\ + \\ \hline \end{array}$$

9×2 units

9×7 tens

g)
$$\begin{array}{r} 44 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \hline \\ + \\ \hline \end{array}$$

6×4 units

6×4 tens

h)
$$\begin{array}{r} 46 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \hline \\ + \\ \hline \end{array}$$

3×6 units

3×4 tens

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

$$\begin{array}{r} \\ \hline \\ + \\ \hline \end{array}$$

8×2 units

8×6 tens

j)
$$\begin{array}{r} 37 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \hline \\ + \\ \hline \end{array}$$

4×7 units

4×3 tens

k)
$$\begin{array}{r} 49 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \hline \\ + \\ \hline \end{array}$$

7×9 units

7×4 tens

l)
$$\begin{array}{r} 78 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \\ \hline \\ + \\ \hline \end{array}$$

3×8 units

3×7 tens

Skill 6.10 Multiplying a 2-digit number by a 1-digit number, by using the standard algorithm (1).

MM2.2 1 1 2 2 3 3 4 4
MM3.1 1 1 2 2 3 3 4 4

Multiply with no carry

- Multiply the units, tens and hundreds by the single digit.
- Multiply from right to left.

Multiply with carry

- Multiply the units, tens and hundreds by the single digit.
- Multiply from right to left.
- If there is a ‘carry over’:
First multiply.
Then add on the carry over.

Q.

$$\begin{array}{r} 4 \ 3 \ 8 \\ \times \quad 2 \\ \hline \end{array}$$

A.

$$\begin{array}{r} 4 \ 3 \ 8 \\ \times \quad 2 \\ \hline 8 \ 7 \ 6 \end{array}$$

Units:

$$2 \times 8 = 16$$

16 units = 1 ten and 6 units \Rightarrow 6 units
Carry over the 1 ten to the tens column.

Tens:

$$2 \times 3 = 6$$

6 + 1 (carry over) = 7 \Rightarrow 7 tens

Hundreds:

$$2 \times 4 = 8$$

\Rightarrow 8 hundreds

a)

$$\begin{array}{r} 3 \ 1 \\ \times \quad 3 \\ \hline 9 \ 3 \end{array}$$

b)

$$\begin{array}{r} 2 \ 2 \\ \times \quad 2 \\ \hline \end{array}$$

c)

$$\begin{array}{r} 3 \ 4 \\ \times \quad 2 \\ \hline \end{array}$$

d)

$$\begin{array}{r} 3 \ 2 \\ \times \quad 3 \\ \hline \end{array}$$

e)

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

f)

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

g)

$$\begin{array}{r} 1 \ 0 \ 2 \\ \times \quad 3 \\ \hline \end{array}$$

h)

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

i)

$$\begin{array}{r} 3 \ 1 \ 3 \\ \times \quad 2 \\ \hline \end{array}$$

j)

$$\begin{array}{r} 4 \ 3 \ 4 \\ \times \quad 2 \\ \hline \end{array}$$

k)

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

l)

$$\begin{array}{r} 1 \ 0 \ 3 \\ \times \quad 3 \\ \hline \end{array}$$

Skill 6.10 Multiplying a 2-digit number by a 1-digit number, by using the standard algorithm (2).

MM2.2 11 22 33 44
MM3.1 11 22 33 44

| | | | | | |
|----|---|----|---|----|--|
| m) | $\begin{array}{r} 1 \overset{1}{6} 4 \\ \times 2 \\ \hline \end{array}$ | n) | $\begin{array}{r} 3 \overset{2}{2} 7 \\ \times 3 \\ \hline \end{array}$ | o) | $\begin{array}{r} 1 5 1 \\ \times 5 \\ \hline \end{array}$ |
| | | | | | |
| p) | $\begin{array}{r} 1 0 4 \\ \times 9 \\ \hline \end{array}$ | q) | $\begin{array}{r} 2 1 8 \\ \times 4 \\ \hline \end{array}$ | r) | $\begin{array}{r} 1 4 0 \\ \times 6 \\ \hline \end{array}$ |
| s) | $\begin{array}{r} 3 4 6 \\ \times 2 \\ \hline \end{array}$ | t) | $\begin{array}{r} 1 0 9 \\ \times 8 \\ \hline \end{array}$ | u) | $\begin{array}{r} 1 2 5 \\ \times 3 \\ \hline \end{array}$ |
| v) | $\begin{array}{r} 2 1 5 \\ \times 4 \\ \hline \end{array}$ | w) | $\begin{array}{r} 3 2 6 \\ \times 3 \\ \hline \end{array}$ | x) | $\begin{array}{r} 1 0 2 \\ \times 5 \\ \hline \end{array}$ |
| y) | $\begin{array}{r} 1 9 2 \\ \times 4 \\ \hline \end{array}$ | z) | $\begin{array}{r} 1 7 3 \\ \times 3 \\ \hline \end{array}$ | A) | $\begin{array}{r} 1 3 3 \\ \times 7 \\ \hline \end{array}$ |
| B) | $\begin{array}{r} 2 3 6 \\ \times 4 \\ \hline \end{array}$ | C) | $\begin{array}{r} 1 1 9 \\ \times 7 \\ \hline \end{array}$ | D) | $\begin{array}{r} 1 1 6 \\ \times 8 \\ \hline \end{array}$ |

Skill 6.11 Multiplying three 1-digit numbers.

MM2.2 1 1 2 2 3 3 4 4
MM3.1 1 1 2 2 3 3 4 4

- Multiply two of the three numbers first, by choosing two that give a simple answer.
 - Multiply the answer by the third number.
- Hint: When multiplying 3 or more numbers, the order is not important (multiplication is associative).*

Q. $3 \times 9 \times 2 =$

A. $3 \times 9 \times 2 =$
 $= 3 \times 2 \times 9$
 $= 6 \times 9$
 $= 54$

Choose 3 and 2 to multiply first.
Multiply 6 and 9.

a) $2 \times 6 \times 5 =$

$= 2 \times 5 \times 6$

$= 10 \times 6 =$

b) $2 \times 9 \times 4 =$

$= 2 \times 4 \times 9$

$= 8 \times 9 =$

c) $9 \times 5 \times 2 =$

$=$

$=$

d) $7 \times 4 \times 2 =$

$=$

$=$

e) $5 \times 8 \times 2 =$

$=$

$=$

f) $6 \times 3 \times 2 =$

$=$

$=$

g) $4 \times 6 \times 2 =$

$=$

$=$

h) $2 \times 3 \times 8 =$

$=$

$=$

i) $5 \times 6 \times 9 =$

$=$

$=$

j) $7 \times 5 \times 8 =$

$=$

$=$

k) $6 \times 2 \times 5 =$

$=$

$=$

l) $6 \times 4 \times 5 =$

$=$

$=$

m) $6 \times 8 \times 2 =$

$=$

$=$

n) $9 \times 8 \times 5 =$

$=$

$=$

o) $5 \times 6 \times 7 =$

$=$

$=$