

Multiplication Strategies

(x2) Doubles

To multiply by 2,
double the number.

$$10 \times 2 = 20$$

$$2 \times 6 = 12$$

$$5 \times 2 = 10$$

$$2 \times 30 = 60$$

($\times 10$) Decade Facts

Multiply $\times 10$

(add "0" to end of #)

$$9 \times 10 = 90$$

$$8 \times 10 = 80$$

(x1) Ones Facts

Any number x1 is
that number.

$$10 \times 1 = 10$$

$$6 \times 1 = 6$$

(x3) Doubles+1

Double the #, then
add it one more time.

$$4 \times 3 =$$

$$4 \times 2 = 8 \quad \text{then, } 8 + 4 = 12$$

$$4 \times 3 = 12$$

(x4) Double Double

Double the other number,
then double again.

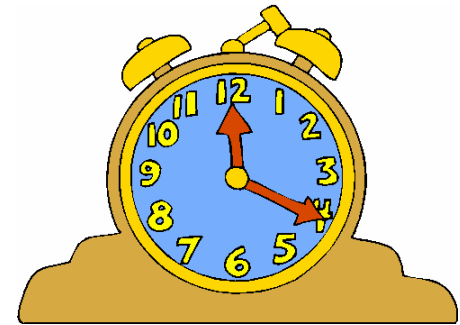
$$6 \times 4 =$$

$$6 \times 2 = 12, \text{ then } 12 \times 2 = 24$$

$$6 \times 4 = 24$$

(x5) Clock Facts

Think of the minutes on a clock to multiply by 5.



$$5 \times 10 = 50$$

$$4 \times 5 = 20$$

(x6) Clock Facts+1

Think of the clock to

multiply by 5 and add

one more set.

$$8 \times 6 =$$



$$8 \times 5 = 40 \text{ then } 40 + 8 = 48$$

(x8)

Double-Double -Double

When one number is 8, **double**
the other #, **double the result**,
and then double again.

$$6 \times 8 =$$

$$6 \times 2 = 12$$

Double
One Time

$$12 \times 2 = 24$$

Double
a 2nd Time

$$24 \times 2 = 48$$

Double
a 3rd Time

$$6 \times 8 = 48$$

(x9) Decade -1 Set

Multiply by 10 and

subtract 1 set.

$$7 \times 9 =$$

$$7 \times 10 = 70 \quad \text{then} \quad 70 - 7 = 63$$

$$7 \times 9 = 63$$

(x11) Decade +1 Set

Multiply by 10 and

add 1 set

$$12 \times 11 =$$

$$12 \times 10 = 120 \text{ then } 120 + 12 = 132$$

$$12 \times 11 = 132$$

(x12) Decade +2 Sets

Multiply by 10

then add 2 sets

$$9 \times 12 =$$

$$9 \times 10 = 90 \quad \text{then} \quad 90 + 9 = 99$$

$$\text{last} \quad 99 + 9 = 108$$

$$9 \times 12 = 108$$

($\times 0$) Zero Facts

Any number $\times 0 = 0$

$$10 \times 0 = 0$$

$$0 \times 90 = 0$$

$$5 \times 0 = 0$$

$$0 \times 123 = 0$$