

RULE: Double the number with 2

2s

$2 \times \underline{2} =$

$2 \times \underline{3} =$

$2 \times \underline{4} =$

$2 \times \underline{5} =$

$2 \times \underline{6} =$

$2 \times \underline{7} =$

$2 \times \underline{8} =$

$2 \times \underline{9} =$

$2 \times 10 =$

$2 \times 11 =$

$2 \times 12 =$

3s

$3 \times 2 =$

$3 \times 3 =$

$3 \times 4 =$

$3 \times 5 =$

$3 \times 6 =$

$3 \times 7 =$

$3 \times 8 =$

$3 \times 9 =$

$3 \times 10 =$

$3 \times 11 =$

$3 \times 12 =$

4s

4 x 2=

4 x 3=

4 x 4=

4 x 5=

4 x 6=

4 x 7=

4 x 8=

4 x 9=

4 x 10=

4 x 11=

4 x 12=

5s

5 x 2=

5 x 3=

5 x 4=

5 x 5=

5 x 6=

5 x 7=

5 x 8=

5 x 9=

5 x 10=

5 x 11=

5 x 12=

6s

6 x 2 =

6 x 3 =

6 x 4 =

6 x 5 =

6 x 6 =

6 x 7 =

6 x 8 =

6 x 9 =

6 x 10 =

6 x 11 =

6 x 12 =

7s

7 x 2 =

7 x 3 =

7 x 4 =

7 x 5 =

7 x 6 =

7 x 7 =

7 x 8 =

7 x 9 =

7 x 10 =

7 x 11 =

7 x 12 =

8s

8 x 2 =

8 x 3 =

8 x 4 =

8 x 5 =

8 x 6 =

8 x 7 =

8 x 8 =

8 x 9 =

8 x 10 =

8 x 11 =

8 x 12 =

9s

9 x 2 =

9 x 3 =

9 x 4 =

9 x 5 =

9 x 6 =

9 x 7 =

9 x 8 =

9 x 9 =

9 x 10 =

9 x 11 =

9 x 12 =

RULE

- One less
- How many to 9?

The first number in the answer is one less than the number with 9. The second number is how much farther it is to 9. Ex: 9x5... one less than five is 4. It is 5 jumps to get to 9 so the answer is 45.

RULE
 • Attach a zero

RULE
 • Two Mirrors

10s

10 x 2 =

10 x 3 =

10 x 4 =

10 x 5 =

10 x 6 =

10 x 7 =

10 x 8 =

10 x 9 =

10 x 10 =

10 x 11 =

10 x 12 =

11s

11 x 2 =

11 x 3 =

11 x 4 =

11 x 5 =

11 x 6 =

11 x 7 =

11 x 8 =

11 x 9 =

11 x 10 =

11 x 11 =

11 x 12 =

The ones in 11 act like 2 mirrors. The number with 11 will see itself in both mirrors as the answer.

Write the number that is with 10 and attach a zero

Rule: Pull Apart
Pull apart the number with 11. Add those digits and stick it in the middle for the answer. Basically, what number goes between the 1&1=2 or 1&2=3

12s

Keep the 2

$$12 \times 2 = 24$$

Double 2 & get 4

RULE:

- Keep
- Double

Keep the number with 12 for the first digit in your answer and double that number to get the second digit in your answer.

$$12 \times 3 =$$

$$12 \times 4 =$$

$$12 \times 5 =$$

$$12 \times 6 = \boxed{7} \boxed{2}$$

$$6 + 6 = 12$$

$$12 \times 7 =$$

$$12 \times 8 =$$

$$12 \times 9 =$$

RULE:

- One up
- Double
- Keep the end

The first digit in the answer is one up from the number with 12.

Double the number with 12 and keep the digit on the end of that for the second digit in the answer.

Ex: 12×6 : One up from 6 is 7, double 6 & get 12. Keep the 2 on 12 for the second digit in your answer.

$$12 \times 10 =$$

$$12 \times 11 =$$

$$12 \times 12 =$$

Things to remember:

The ten rule always takes over, no matter what fact set you are doing.

Turn around facts... if you know 3×5 then you know 5×3

Almost all the facts I have not given you a RULE for have a trick on the cartoon mnemonic packet.