



STRATEGY

Multiplying Numbers by 12

Strategy

Find the value of 58×12 .

$$58 \times 12 = (50 \times 12) + (8 \times 12)$$

$$= 600 + 96$$

$$= \mathbf{696}$$

Expand the first factor. Multiply both parts by 12.

Add the products to find the answer.

Solve each problem mentally.

1. $38 \times 12 =$

2. $69 \times 12 =$

3. $43 \times 12 =$

4. $54 \times 12 =$

5. $82 \times 12 =$

6. $75 \times 12 =$

7. $91 \times 12 =$

8. $18 \times 12 =$

9. $48 \times 12 =$

10. $29 \times 12 =$

Multiplying by 12 shortcut

So how does the 12's shortcut work?

Let's take a look.

$$12 \times 7$$

the first thing is to always multiply the 1 of the twelve by the number we are multiplying by, in this case 7. So $1 \times 7 = 7$.

Multiply this 7 by 10 giving 70. (Why? We are working with BASES here. Bases are the fundamentals to easy calculations for all multiplication tables.

Now multiply the 7 by the 2 of twelve giving 14. Add this to 70 giving 84.

$$\text{Therefore } 7 \times 12 = 84$$

Let's try another:

$$17 \times 12$$

Remember, multiply the 17 by the 1 in 12 and multiply by 10
(Just add a zero to the end):

$$1 \times 17 = 17, \text{ multiplied by } 10 \text{ giving } 170.$$

Multiply 17 by 2 giving 34.

Add 34 to 170 giving 204.

$$\text{So } 17 \times 12 = 204$$

lets go one more

$$24 \times 12$$

Multiply $24 \times 1 = 24$. Multiply by 10 giving 240.

Multiply 24 by 2 = 48. Add to 240 giving us 288

$$24 \times 12 = 288 \text{ (these are Seriously Simple Sums to do aren't they?!)}$$