# Instructions for Parents 

## Where to begin...

## Students need to complete the fast facts 3 times per week.

## Each year group has a different time to complete as many of the fast facts as possible.

When students attain the minimum score in three consecutive fast fact sessions they can move onto the next level.

| Year Group | Time for <br> Mental Maths Drill | Minimum Score to <br> indicate Mastery |
| :---: | :---: | :---: |
| 1 | 4 min | 80 |
| 2 | 3 min | 60 |
| 3 | $21 / 2 \mathrm{~min}$ | 50 |
| 4 | 2 | 40 |
| $5 / 6$ | $11 / 2 \mathrm{~min}$ | 30 |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $6 \times 2=$ | $1 \times 5=$ | $1 \times 2=$ | $3 \times 5=$ | 1×10= | $4 \times 2=$ | $7 \times 2=$ | 6×5= |
| $2 \times 5=$ | $9 \times 2=$ | $1 \times 5=$ | $7 \times 2=$ | $8 \times 2=$ | 0×10= | $5 \times 5=$ | $7 \times 2=$ |
| $1 \times 5=$ | $1 \times 10=$ | $9 \times 5=$ | $1 \times 5=$ | $0 \times 2=$ | $4 \times 5=$ | $6 \times 2=$ | 10x5= |
| $10 \times 2=$ | $2 \times 2=$ | $3 \times 5=$ | 2x5= | $7 \times 10=$ | $7 \times 5=$ | $5 \times 2=$ | 0×5= |
| $3 \times 2=$ | $1 \times 2=$ | $6 \times 2=$ | $8 \times 2=$ | $8 \times 5=$ | 9×5= | 6×5= | $8 \times 5=$ |
| $4 \times 5=$ | $4 \times 2=$ | $8 \times 5=$ | 6x2= | $10 \times 10=$ | $3 \times 2=$ | $10 \times 2=$ | $6 \times 10=$ |
| 0×5= | $9 \times 5=$ | $5 \times 5=$ | 2x5= | $2 \times 10=$ | $9 \times 2=$ | $7 \times 5=$ | 0×5= |
| $7 \times 10=$ | $4 \times 5=$ | $1 \times 2=$ | 5×5= | $6 \times 5=$ | $3 \times 5=$ | $1 \times 10=$ | $8 \times 5=$ |
| $2 \times 2=$ | $1 \times 2=$ | $5 \times 2=$ | $7 \times 2=$ | $1 \times 5=$ | $7 \times 5=$ | $0 \times 2=$ | $9 \times 2=$ |
| $9 \times 10=$ | $3 \times 2=$ | $3 \times 10=$ | $10 \times 5=$ | $8 \times 2=$ | 9×5= | 2×5= | $1 \times 5=$ |
| 2×5= | $0 \times 2=$ | $5 \times 2=$ | $7 \times 2=$ | $2 \times 2=$ | 5×5= | $3 \times 5=$ | 5×5= |
| $5 \times 2=$ | $4 \times 2=$ | $10 \times 5=$ | $4 \times 10=$ | $8 \times 2=$ | 10x2= | $10 \times 2=$ | 10x5= |
| 1×2= | $3 \times 5=$ | $0 \times 5=$ | $6 \times 2=$ | $6 \times 5=$ | 0×5= | $7 \times 5=$ | $2 \times 5=$ |
| $0 \times 2=$ | $2 \times 10=$ | $4 \times 5=$ | 5×5= | $0 \times 10=$ | $1 \times 5=$ | $6 \times 5=$ | $8 \times 5=$ |
| 9×5= | $2 \times 2=$ | $3 \times 2=$ | $4 \times 10=$ | $9 \times 2=$ | $7 \times 5=$ | $8 \times 5=$ | $4 \times 5=$ |
| $10 \times 10=$ | $8 \times 10=$ | $8 \times 10=$ | $2 \times 2=$ | $0 \times 10=$ | 0×2= | $3 \times 5=$ | 9×5= |
| $9 \times 2=$ | $6 \times 5=$ | $10 \times 2=$ | $1 \times 10=$ | $4 \times 2=$ | $10 \times 10=$ | $7 \times 5=$ | $3 \times 2=$ |
| $3 \times 10=$ | $2 \times 10=$ | $2 \times 2=$ | $8 \times 2=$ | $5 \times 10=$ | $10 \times 5=$ | $4 \times 10=$ | $10 \times 10=$ |
| $10 \times 2=$ | $3 \times 2=$ | $9 \times 2=$ | $5 \times 2=$ | $7 \times 10=$ | 7×5= | $5 \times 10=$ | $7 \times 2=$ |
| $4 \times 2=$ | $9 \times 10=$ | 1×10= | $6 \times 10=$ | $1 \times 2=$ | $6 \times 10=$ | $6 \times 2=$ | $5 \times 10=$ |
| 0x5= | $2 \times 5=$ | $2 \times 10=$ | $0 \times 5=$ | $2 \times 2=$ | $3 \times 2=$ | $6 \times 10=$ | $6 \times 5=$ |
| $1 \times 10=$ | $10 \times 5=$ | $7 \times 5=$ | $8 \times 10=$ | $3 \times 5=$ | $7 \times 10=$ | $5 \times 10=$ | $5 \times 2=$ |
| $2 \times 5=$ | $6 \times 10=$ | $9 \times 10=$ | $2 \times 2=$ | $3 \times 10=$ | $4 \times 5=$ | $4 \times 2=$ | $3 \times 2=$ |
| 0×10= | $1 \times 5=$ | $3 \times 5=$ | $1 \times 2=$ | $6 \times 5=$ | $4 \times 10=$ | 10x5= | $6 \times 10=$ |
| 9×5= | $0 \times 2=$ | $10 \times 10=$ | 2×5= | $7 \times 10=$ | 2×10= | 5×5= | $8 \times 5=$ |
| $0 \times 2=$ | $9 \times 2=$ | $8 \times 10=$ | $8 \times 5=$ | $10 \times 5=$ | $4 \times 2=$ | $9 \times 2=$ | $10 \times 2=$ |
| $4 \times 5=$ | $3 \times 5=$ | $2 \times 10=$ | $3 \times 10=$ | $2 \times 2=$ | $7 \times 5=$ | $4 \times 2=$ | $6 \times 2=$ |
| $0 \times 2=$ | $8 \times 2=$ | $7 \times 5=$ | $2 \times 5=$ | $1 \times 5=$ | $5 \times 2=$ | $6 \times 2=$ | $3 \times 10=$ |
| $10 \times 5=$ | $1 \times 2=$ | $9 \times 5=$ | $5 \times 5=$ | $7 \times 2=$ | $4 \times 5=$ | $6 \times 5=$ | $8 \times 2=$ |
| $9 \times 2=$ | $10 \times 5=$ | $4 \times 5=$ | $7 \times 10=$ | $3 \times 2=$ | 0×5= | $7 \times 2=$ | $5 \times 5=$ |
| $3 \times 5=$ | $7 \times 5=$ | $7 \times 10=$ | $2 \times 10=$ | $9 \times 10=$ | $1 \times 10=$ | $0 \times 5=$ | $7 \times 2=$ |
| $8 \times 10=$ | $4 \times 10=$ | $4 \times 2=$ | $3 \times 5=$ | $2 \times 5=$ | $4 \times 5=$ | $5 \times 5=$ | $10 \times 2=$ |
| $5 \times 10=$ | $5 \times 5=$ | $4 \times 5=$ | $0 \times 10=$ | $3 \times 10=$ | $1 \times 5=$ | $9 \times 10=$ | $10 \times 10=$ |
| $5 \times 2=$ | $1 \times 2=$ | $3 \times 10=$ | $8 \times 5=$ | $9 \times 5=$ | $8 \times 10=$ | $10 \times 5=$ | $9 \times 5=$ |
| $6 \times 5=$ | $6 \times 10=$ | $8 \times 5=$ | $1 \times 2=$ | $1 \times 5=$ | 0×10= | $0 \times 2=$ | 0×2= |
| $5 \times 6=$ | $4 \times 10=$ | $3 \times 2=$ | $5 \times 2=$ | $2 \times 5=$ | $0 \times 5=$ | $10 \times 2=$ | $8 \times 5=$ |
| $2 \times 10=$ | $9 \times 5=$ | $4 \times 5=$ | $2 \times 2=$ | $6 \times 2=$ | $8 \times 2=$ | $8 \times 2=$ | $7 \times 5=$ |
| $6 \times 2=$ | $4 \times 2=$ | $5 \times 10=$ | $3 \times 5=$ | $10 \times 10=$ | $7 \times 2=$ | $9 \times 10=$ | 9×2= |
| $5 \times 2=$ | $8 \times 10=$ | $1 \times 10=$ | $9 \times 10=$ | $7 \times 5=$ | $1 \times 5=$ | $6 \times 5=$ | 9×5= |
| $3 \times 10=$ | $5 \times 5=$ | $8 \times 2=$ | $10 \times 5=$ | 0x10= | $5 \times 10=$ | $4 \times 10=$ | $10 \times 2=$ |

## Mental Maths $-\times 2 / \times 5 / \times 10 / \div 2 / \div 5 / \div 10$

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $6 \times 2=$ | $1 \times 5=$ | 100 $10=$ | $10 \div 10=$ | $1 \times 10=$ | $50 \div 5=$ | 40ㄴ5= | $60 \div 10=$ |
| 100 $\div 10=$ | 6×10= | $10 \times 5=$ | $7 \times 2=$ | 25 $5=$ | $0 \times 10=$ | 202= | $7 \times 2=$ |
| $1 \times 5=$ | $1 \times 10=$ | 9×5= | $2 \times 2=$ | $1 \times 5=$ | $5 \div 5=$ | $6 \times 2=$ | 202= |
| 5010= | $2 \times 5=$ | $10 \div 2=$ | 10×10= | $7 \times 10=$ | 15*5= | $10 \div 10=$ | 0×5= |
| $1 \times 10=$ | $1 \times 2=$ | 35 $\div 5=$ | $8 \times 2=$ | $8 \div 2=$ | $9 \times 2=$ | 6×5= | $8 \times 5=$ |
| $4 \times 5=$ | 30 5 = | $8 \times 5=$ | 30 $\div 10=$ | $10 \times 10=$ | $3 \times 2=$ | $20 \div 5=$ | $6 \times 10=$ |
| $2 \times 10=$ | 9×5= | $2 \div 2=$ | $2 \times 5=$ | $2 \times 10=$ | $10 \times 2=$ | $3 \times 10=$ | $9 \times 10=$ |
| $7 \times 10=$ | $4 \div 2=$ | $1 \times 2=$ | $5 \times 5=$ | $6 \div 2=$ | $3 \times 5=$ | $1 \times 10=$ | $80 \div 10=$ |
| $16 \div 2=$ | 35 $\div 5=$ | $6 \div 2=$ | $8 \times 5=$ | 1×5= | $20 \div 2=$ | $4 \times 2=$ | $9 \times 2=$ |
| 9 $\times 10=$ | $14 \div 2=$ | $3 \times 10=$ | 25 $\div 5=$ | $6 \div 2=$ | 9010= | 2×5= | $4 \div 2=$ |
| $3 \times 10=$ | $0 \times 2=$ | 155ㄴ | $30 \div 5=$ | 2×2= | 5×5= | 4055= | $10 \div 2=$ |
| $5 \times 2=$ | 2010 $=$ | 505= | $4 \times 10=$ | $18 \div 2=$ | $12 \div 2=$ | $10 \times 2=$ | $10 \times 5=$ |
| 202= | 255: | 0×5= | $3 \times 5=$ | $6 \div 2=$ | 2 $\div 2=$ | $1 \times 2=$ | $60 \div 10=$ |
| $4 \times 10=$ | $2 \times 10=$ | 45 55 | $5 \times 10=$ | $0 \times 10=$ | $6 \div 2=$ | 7010= | $45 \div 5=$ |
| $1 \times 2=$ | $10 \times 5=$ | 7010= | $4 \times 10=$ | $80 \div 10=$ | $7 \times 5=$ | 18:2= | $8 \times 2=$ |
| 10×10= | $8 \times 10=$ | $2 \times 10=$ | $2 \times 2=$ | $7 \times 5=$ | $8 \div 2=$ | $3 \times 5=$ | $18 \div 2=$ |
| $8 \div 2=$ | $6 \times 5=$ | 45*5= | $1 \times 10=$ | $4 \times 2=$ | $10 \times 10=$ | $2 \times 2=$ | $3 \times 2=$ |
| 2 $\div 2=$ | $10 \div 5=$ | 50ㄴ10= | 4×5= | $5 \times 10=$ | $10 \div 2=$ | $3 \times 2=$ | 50 $\div 10=$ |
| $10 \times 2=$ | $5 \times 2=$ | $9 \times 2=$ | $40 \div 10=$ | $4 \div 2=$ | $7 \times 5=$ | $5 \times 10=$ | 6×5= |
| 90 $\div 10=$ | 9010= | 30 $\div 10=$ | $6 \times 10=$ | $8 \div 2=$ | 100 $10=$ | $4 \div 2=$ | $10 \div 5=$ |
| 60 $\div 10=$ | 2×5= | 8 $\div 2=$ | $0 \times 5=$ | $18 \div 2=$ | $18 \div 2=$ | 6x10= | $6 \times 5=$ |
| 45:5= | 205= | $40 \div 5=$ | 5×5= | 155ㄴ | $7 \times 10=$ | $3 \times 2=$ | 40 $\div 10=$ |
| 2×5= | $6 \times 10=$ | 5 $\div 5=$ | 2×2= | 2 $\div 2=$ | $80 \div 10=$ | 505= | $3 \times 2=$ |
| $5 \times 10=$ | $1 \times 10=$ | $3 \times 5=$ | $12 \div 2=$ | 7010= | $16 \div 2=$ | $10 \times 5=$ | 30 $\div 10=$ |
| 2 $\div 2=$ | $15 \div 5=$ | $16 \div 2=$ | 6×5= | 6010= | $2 \times 10=$ | $4 \times 2=$ | 35:5= |
| 80 $\div 10=$ | $9 \times 2=$ | $8 \times 10=$ | $4 \div 2=$ | $10 \times 5=$ | $4 \times 2=$ | 1010 $=$ | $4 \div 2=$ |
| $6 \times 10=$ | 2010 $=$ | $2 \times 10=$ | $3 \times 10=$ | $3 \times 5=$ | $14 \div 2=$ | $45 \div 5=$ | 205= |
| $0 \times 2=$ | $6 \times 2=$ | $7 \times 5=$ | $16 \div 2=$ | 505 = | 105= | 5×2= | $3 \times 10=$ |
| 20:5= | 30 $55=$ | 5 $\div 5=$ | 5×5= | $2 \div 2=$ | $4 \times 5=$ | $7 \times 2=$ | $8 \times 10=$ |
| 7×10 $=$ | $10 \times 5=$ | $4 \times 5=$ | $7 \times 10=$ | 405= | $14 \div 2=$ | 2555= | $10 \div 2=$ |
| $3 \times 5=$ | 30 $\div 5=$ | 9×5= | $7 \times 5=$ | $9 \times 10=$ | 20 $\div 10=$ | $6 \times 2=$ | $7 \times 2=$ |
| $8 \times 10=$ | 505: | $4 \times 2=$ | 35 5 5 $=$ | $1 \times 5=$ | $4 \times 5=$ | 5x5= | 50ㄴ10= |
| 10 $\div 5=$ | $10 \div 10=$ | $4 \times 5=$ | $0 \times 10=$ | $3 \times 10=$ | $7 \times 10=$ | $7 \times 2=$ | $15 \div 5=$ |
| 5×2= | $1 \times 2=$ | 40 $-10=$ | $8 \times 5=$ | $8 \div 2=$ | 9010= | $8 \times 2=$ | 9×5= |
| $10 \times 2=$ | $100 \div 10=$ | $8 \times 5=$ | 305 = | 1×5= | $14 \div 2=$ | 0x2= | 5×5= |
| 6×5= | $4 \times 10=$ | 405= | 5×2= | 5 $\div 5=$ | $30 \div 10=$ | 12:2= | $4 \times 10=$ |
| $8 \times 10=$ | 9×5= | 20-2= | 205= | 25 $55=$ | $8 \times 2=$ | 16:2= | 7×5= |
| 6×2= | $10 \div 5=$ | $5 \times 10=$ | $14 \div 2=$ | $10 \times 10=$ | $12 \div 2=$ | $9 \times 10=$ | 2010 $=$ |
| 9×10= | $8 \times 10=$ | 35:5= | $9 \times 10=$ | 4010= | 102= | 9 $\times 2=$ | 7010= |
| $12 \div 2=$ | 5 $\div 5=$ | 8×2= | $9 \times 5=$ | $2 \times 5=$ | $5 \times 10=$ | $4 \times 10=$ | $10 \times 2=$ |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0×3= | 30%3= | $9 \times 0=$ | $2 \times 3=$ | 9x1= | $7 \times 0=$ | $6 \div 3=$ | $9 \times 3=$ |
| 3 $\div 1=$ | $0 \times 1=$ | $27 \div 3=$ | 101: | 2 $\div 1=$ | $3 \times 1=$ | $0 \times 0=$ | $6 \times 0=$ |
| $0 \div 2=$ | $6 \div 1=$ | $1 \times 3=$ | 0 $\div 1=$ | $2 \times 0=$ | $1 \div 1=$ | $6 \times 3=$ | $6 \times 3=$ |
| 1×1= | $0 \times 0=$ | $0 \div 4=$ | $3 \times 0=$ | $9 \div 1=$ | $12 \div 3=$ | $0 \div 10=$ | $5 \times 1=$ |
| 24:3= | $0 \div 3=$ | 6x1= | $0 \div 7=$ | 3×3= | $3 \div 3=$ | $0 \div 9=$ | 15:3= |
| $4 \times 0=$ | $10 \times 0=$ | 1 $\times 3=$ | $10 \times 3=$ | $15 \div 3=$ | $3 \times 3=$ | $5 \times 0=$ | $9 \div 3=$ |
| 5 $\div 1=$ | $9 \times 3=$ | 18*3= | $2 \times 1=$ | 30 $-3=$ | $5 \times 3=$ | $8 \div 1=$ | $5 \times 3=$ |
| 21:3= | $4 \times 3=$ | $0 \div 5=$ | $0 \div 6=$ | $2 \times 3=$ | $8 \times 0=$ | $4 \times 1=$ | $0 \div 8=$ |
| 18ㄴ3= | $4 \div 1=$ | $1 \times 0=$ | $7 \times 3=$ | $8 \times 1=$ | $24 \div 3=$ | $4 \times 3=$ | $7 \times 3=$ |
| $8 \times 3=$ | $7 \times 1=$ | $8 \times 3=$ | $10 \times 3=$ | $27 \div 3=$ | 10×1= | $7 \div 1=$ | 21*3= |
| 9x1= | $7 \times 0=$ | $6 \div 3=$ | $9 \times 3=$ | $0 \times 3=$ | $30 \div 3=$ | $9 \times 0=$ | $2 \times 3=$ |
| 2-1= | $3 \times 1=$ | 010= | $6 \times 0=$ | 3 $\div 1=$ | 0x1= | 27*3= | $10 \div 1=$ |
| $2 \times 0=$ | $1 \div 1=$ | 6×3= | $6 \times 3=$ | $0 \div 2=$ | $6 \div 1=$ | $1 \times 3=$ | $0 \div 1=$ |
| $9 \div 1=$ | $12 \div 3=$ | $0 \div 6=$ | $5 \times 1=$ | $1 \times 1=$ | $0 \times 0=$ | $0 \div 4=$ | $3 \times 0=$ |
| 3×3= | $3 \div 3=$ | $0 \div 9=$ | $15 \div 3=$ | $24 \div 3=$ | $0 \div 3=$ | 6x1= | $0 \div 7=$ |
| $15 \div 3=$ | $3 \times 3=$ | 5×0= | $9 \div 3=$ | $4 \times 0=$ | $10 \times 0=$ | $1 \times 3=$ | $10 \times 3=$ |
| 303 $=$ | 5×3= | $8 \div 1=$ | $5 \times 3=$ | 5:1= | $9 \times 3=$ | $18 \div 3=$ | $2 \times 1=$ |
| $2 \times 3=$ | $8 \times 0=$ | $4 \times 1=$ | $0 \div 8=$ | 21:3= | $4 \times 3=$ | $0 \div 5=$ | $0 \div 6=$ |
| $8 \times 1=$ | $24 \div 3=$ | 4×3= | $7 \times 3=$ | 18ㄴ3= | $4 \div 1=$ | $1 \times 0=$ | $7 \times 3=$ |
| 27:3= | 10x1= | $7 \div 1=$ | 21:3= | $8 \times 3=$ | $7 \times 1=$ | $8 \times 3=$ | $10 \times 3=$ |
| $9 \times 0=$ | $2 \times 3=$ | $9 \times 1=$ | $7 \times 0=$ | $6 \div 3=$ | 9×3= | $0 \times 3=$ | $30 \div 3=$ |
| 27:3= | $10 \div 1=$ | 2-1= | $3 \times 1=$ | $0 \div 10=$ | $6 \times 0=$ | 3*1= | 0x1= |
| 1×3= | 01: | 2×0 $=$ | $1 \div 1=$ | 6×3= | $6 \times 3=$ | $0 \div 2=$ | $6 \div 1=$ |
| $0 \div 4=$ | $3 \times 0=$ | $9 \div 1=$ | $12 \div 3=$ | $0 \div 8=$ | $5 \times 1=$ | $1 \times 1=$ | $0 \times 0=$ |
| 6x1= | 0ㄴ7= | $3 \times 3=$ | 3 $\div 3=$ | 0 $-9=$ | $15 \div 3=$ | $24 \div 3=$ | $0 \div 3=$ |
| $5 \times 0=$ | 9 $\div 3=$ | $4 \times 0=$ | $10 \times 0=$ | $1 \times 3=$ | $10 \times 3=$ | 15*3= | $3 \times 3=$ |
| $8 \div 1=$ | 5×3= | 5-1= | $9 \times 3=$ | $18 \div 3=$ | $2 \times 1=$ | $30 \div 3=$ | $5 \times 3=$ |
| $4 \times 1=$ |  | 21 $\div 3=$ | $4 \times 3=$ | $0 \div 5=$ | $0 \div 6=$ | $2 \times 3=$ | $8 \times 0=$ |
| $4 \times 3=$ | 7×3= | $18 \div 3=$ | $4 \div 1=$ | $1 \times 0=$ | $7 \times 3=$ | $8 \times 1=$ | $24 \div 3=$ |
| 7-1 $=$ | 21:3= | $8 \times 3=$ | $7 \times 1=$ | $8 \times 3=$ | $10 \times 3=$ | $27 \div 3=$ | $10 \times 1=$ |
| 0×3= | 30 3 = | $9 \times 0=$ | $2 \times 3=$ | 9x1= | $7 \times 0=$ | $6 \div 3=$ | 9 $\times 3=$ |
| 3 $\div 1=$ | $0 \times 1=$ | $27 \div 3=$ | $10 \div 1=$ | 2 $\div 1=$ | $3 \times 1=$ | $0 \div 10=$ | $6 \times 0=$ |
| $0 \div 2=$ | $6 \div 1=$ | $1 \times 3=$ | 0 $\div 1=$ | 2×0= | $1 \div 1=$ | 6×3= | 6×3= |
| $1 \times 1=$ | $0 \times 0=$ | $0 \div 4=$ | $3 \times 0=$ | 9 $\div 1=$ | $12 \div 3=$ | 0 $\div 6=$ | $5 \times 1=$ |
| 24 $\div 3=$ | $0 \div 3=$ | $6 \times 1=$ | $0 \div 7=$ | $3 \times 3=$ | $3 \div 3=$ | 09: | $15 \div 3=$ |
| 15*3= | $3 \times 3=$ | $5 \times 0=$ | $9 \div 3=$ | $4 \times 0=$ | $10 \times 0=$ | $1 \times 3=$ | $10 \times 3=$ |
| 30 $3=$ | 5×3= | $8 \div 1=$ | $5 \times 3=$ | $5 \div 1=$ | $9 \times 3=$ | 1833 $=$ | $2 \times 1=$ |
| 2×3= | $8 \times 0=$ | $4 \times 1=$ | $0 \div 8=$ | 21:3= | $4 \times 3=$ | 0 $\div 5=$ | 0 $\div 6=$ |
| $8 \times 1=$ | $24 \div 3=$ | $4 \times 3=$ | 7×3= | $18 \div 3=$ | $4 \div 1=$ | $1 \times 0=$ | $7 \times 3=$ |
| 27*3= | 10×1= | 7 $\div 1=$ | 21:3= | $8 \times 3=$ | $7 \times 1=$ | $8 \times 3=$ | $10 \times 3=$ |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $9 \times 4=$ | 0×6= | $8 \div 4=$ | $2 \times 4=$ | $3 \times 6=$ | $4 \times 4=$ | 24 $\div 4=$ | $11 \times 4=$ |
| $9 \times 6=$ | $0 \times 4=$ | $54 \div 6=$ | $10 \times 4=$ | 40ㄴ4= | $7 \times 6=$ | 7×4= | $5 \times 6=$ |
| $1 \times 6=$ | 36-4= | $1 \times 4=$ | $42 \div 6=$ | 606= | $30 \div 6=$ | $66 \div 6=$ | 20ㄴ4 $=$ |
| 32 $\div 4=$ | $4 \div 4=$ | $10 \times 6=$ | $8 \times 6=$ | $3 \times 4=$ | $4 \times 6=$ | 6×6= | $11 \times 6=$ |
| 5×4= | $8 \times 4=$ | 444: | $2 \times 6=$ | 12 $\div 4=$ | 284:4 | 16:4= | $6 \times 4=$ |
| 18*6= | $48 \div 6=$ | $0 \div 6=$ | 24:6= | $12 \div 6=$ | $36 \div 6=$ | $0 \div 4=$ | $6 \div 6=$ |
| $11 \times 4=$ | $9 \times 4=$ | 0×6= | $8 \div 4=$ | $2 \times 4=$ | $3 \times 6=$ | $4 \times 4=$ | $24 \div 4=$ |
| $5 \times 6=$ | $9 \times 6=$ | $0 \times 4=$ | 54:6= | 10x4= | 40ㄴ4 $=$ | $7 \times 6=$ | 7×4= |
| 20ㄴ4 $=$ | $1 \times 6=$ | $36 \div 4=$ | $1 \times 4=$ | $42 \div 6=$ | 606= | 30-6= | $66 \div 6=$ |
| $11 \times 6=$ | 32:4= | 4 $\div 4=$ | 10x6= | $8 \times 6=$ | $3 \times 4=$ | $4 \times 6=$ | 6×6= |
| 6×4= | $5 \times 4=$ | $8 \times 4=$ | 444: | $2 \times 6=$ | $12 \div 4=$ | 28ㄴ4= | 16*4= |
| $6 \div 6=$ | 1866 | $48 \div 6=$ | $0 \div 6=$ | 24:6= | $12 \div 6=$ | 36 $6=$ | $0 \div 4=$ |
| 24:4= | $11 \times 4=$ | $3 \times 6=$ | $4 \times 4=$ | $8 \div 4=$ | $2 \times 4=$ | $9 \times 4=$ | 0×6= |
| $7 \times 4=$ | 5×6= | $40 \div 4=$ | $7 \times 6=$ | $54 \div 6=$ | 10×4= | $9 \times 6=$ | $0 \times 4=$ |
| 66:6= | 20ㄴ4 $=$ | 606= | $30 \div 6=$ | $1 \times 4=$ | 4266 | $1 \times 6=$ | 36:4 $=$ |
| 6×6= | $11 \times 6=$ | $3 \times 4=$ | $4 \times 6=$ | 10×6= | $8 \times 6=$ | $32 \div 4=$ | $4 \div 4=$ |
| 16 $\div 4=$ | 6×4= | 12 $\div 4=$ | 28 $4=$ | $44 \div 4=$ | $2 \times 6=$ | 5×4= | $8 \times 4=$ |
| $0 \div 4=$ | $6 \div 6=$ | $12 \div 6=$ | $36 \div 6=$ | 0 $\div 6=$ | 24:6= | $18 \div 6=$ | $48 \div 6=$ |
| 24:4= | $11 \times 4=$ | $9 \times 4=$ | 0×6= | $8 \div 4=$ | $2 \times 4=$ | $3 \times 6=$ | $4 \times 4=$ |
| $7 \times 4=$ | 5×6= | 9×6= | 0×4= | $54 \div 6=$ | 10x4= | 40ㄴ4 $=$ | $7 \times 6=$ |
| 66:6= | $20 \div 4=$ | $1 \times 6=$ | $36 \div 4=$ | $1 \times 4=$ | 426: | 606= | $30 \div 6=$ |
| 6×6= | $11 \times 6=$ | $32 \div 4=$ | $4 \div 4=$ | $10 \times 6=$ | $8 \times 6=$ | $3 \times 4=$ | 4×6= |
| 16*4= | 6×4= | 5×4= | $8 \times 4=$ | $44 \div 4=$ | $2 \times 6=$ | 12*4= | 28 $\div 4=$ |
| $0 \div 4=$ | $6 \div 6=$ | $18 \div 6=$ | $48 \div 6=$ | 0 $\div 6=$ | 24:6= | $12 \div 6=$ | $36 \div 6=$ |
| 0×6= | $8 \div 4=$ | 2x4= | 3x6= | 4×4= | 2444 | $11 \times 4=$ | 9x4= |
| 0×4= | $54 \div 6=$ | 10×4= | 404: | $7 \times 6=$ | $7 \times 4=$ | $5 \times 6=$ | 9x6= |
| $36 \div 4=$ | $1 \times 4=$ | $42 \div 6=$ | 606= | $30 \div 6=$ | $66 \div 6=$ | $20 \div 4=$ | $1 \times 6=$ |
| 4 $\div 4=$ | $10 \times 6=$ | $8 \times 6=$ | 3×4= | 4×6= | 6×6= | $11 \times 6=$ | $32 \div 4=$ |
| $8 \times 4=$ | $44 \div 4=$ | 2×6= | $12 \div 4=$ | 28 $\div 4=$ | 16 $\div 4=$ | 6×4= | 5×4= |
| 48 $\div 6=$ | 0 $\div 6=$ | 24:6= | $12 \div 6=$ | 36 $\div 6=$ | $0 \div 4=$ | $6 \div 6=$ | $18 \div 6=$ |
| 3×6= | 4×4= | 24*4= | 11×4= | 9x4= | $0 \times 6=$ | 8 $\div 4=$ | $2 \times 4=$ |
| 40 $4=$ | 7x6= | 7×4= | 5×6= | 9x6 $=$ | 0×4= | $54 \div 6=$ | $10 \times 4=$ |
| 60 $6=$ | $30 \div 6=$ | 66:6= | 204: | $1 \times 6=$ | $36 \div 4=$ | $1 \times 4=$ | $42 \div 6=$ |
| $3 \times 4=$ | 4×6= | 6×6= | 11×6= | 32 $\div 4=$ | $4 \div 4=$ | $10 \times 6=$ | $8 \times 6=$ |
| 12 $\div 4=$ | 28 $\div 4=$ | 16 $\div 4=$ | 6x4= | 5×4= | $8 \times 4=$ | $44 \div 4=$ | 2x6= |
| 12:6= | 36:6= | 0 $\div 4=$ | 6 $6=$ | 18:6= | $48 \div 6=$ | 0 $\div 6=$ | 24:6= |
| 16:4= | 6x4= | 12 $\div 4=$ | 28:4= | 44*4= | 2×6= | 5×4= | $8 \times 4=$ |
| 0 $\div 4=$ | $6 \div 6=$ | $12 \div 6=$ | 36:6= | 066= | 2466 | 18*6= | $48 \div 6=$ |
| 24:4= | $11 \times 4=$ | $9 \times 4=$ | 0x6= | 8 $\div 4=$ | 2×4= | 3x6= | 4×4= |
| 7×4= | $5 \times 6=$ | $9 \times 6=$ | $0 \times 4=$ | 54:6= | 10×4= | 40 $4=$ | $7 \times 6=$ |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0x7= | $7 \times 8=$ | 5×9= | 99 $\div 9=$ | $10 \times 7=$ | 2×9= | $36 \div 9=$ | $2 \times 8=$ |
| $14 \div 7=$ | 88:8= | $7 \times 7=$ | $6 \times 8=$ | $0 \div 8=$ | 77-7= | $4 \times 7=$ | $56 \div 8=$ |
| $8 \times 9=$ | 45 $\div 9=$ | $0 \div 7=$ | $3 \times 8=$ | $2 \times 7=$ | $63 \div 9=$ | $42 \div 7=$ | $1 \times 9=$ |
| 7 $\div 7=$ | 0×8= | 7×9= | 189: $=$ | 48% $=$ | $9 \times 8=$ | $11 \times 8=$ | $3 \times 7=$ |
| 72-9= | 32:8= | 287 = | 707 = | 10×9= | $35 \div 7=$ | $56 \div 7=$ | $6 \times 7=$ |
| $4 \times 8=$ | 21:7= | 3×9= | 11×7= | 63*7= | $27 \div 9=$ | 0 $\div 9=$ | $11 \times 9=$ |
| $4 \times 7=$ | $1 \times 7=$ | 4×7= | 81 $9=$ | $72 \div 8=$ | $5 \times 7=$ | 5×8= | $49 \div 7=$ |
| $4 \times 9=$ | $4 \times 9=$ | $3 \times 8=$ | $54 \div 9=$ | $1 \times 8=$ | $3 \times 7=$ | 8088 | $8 \times 8=$ |
| 16*8= | 10×8= | 40% $=$ | 3×9= | $5 \times 8=$ | 6×9= | $90 \div 9=$ | $9 \times 7=$ |
| $8 \times 7=$ | 64:8= | 9 $9=$ | $5 \times 7=$ | 0×9= | $24 \div 8=$ | 9×9= | 8 $\div 8=$ |
| 10×7= | $2 \times 9=$ | $36 \div 9=$ | 2×8= | $0 \times 7=$ | 7×8= | 5×9= | $99 \div 9=$ |
| $0 \div 8=$ | $77 \div 7=$ | $4 \times 7=$ | $56 \div 8=$ | $14 \div 7=$ | $88 \div 8=$ | 7×7= | 6×8= |
| $2 \times 7=$ | 63*9= | $42 \div 7=$ | $1 \times 9=$ | $8 \times 9=$ | $45 \div 9=$ | $0 \div 7=$ | $3 \times 8=$ |
| $48 \div 8=$ | 9×8= | $11 \times 8=$ | $3 \times 7=$ | $7 \div 7=$ | 0×8= | 7×9= | 1899 |
| 10×9= | 35*7= | $56 \div 7=$ | 6×7= | $72 \div 9=$ | $32 \div 8=$ | 28 $77=$ | $70 \div 7=$ |
| 63:7 $=$ | 27-9 $=$ | 0 $\div 9=$ | 11×9= | $4 \times 8=$ | 21:7= | 3×9= | 11×7= |
| 72:8= | $5 \times 7=$ | 5×8= | $49 \div 7=$ | $4 \times 7=$ | $1 \times 7=$ | $4 \times 7=$ | 81\%9= |
| 1×8= | $3 \times 7=$ | 8088= | 8×8= | 4×9= | 4×9= | 3x8= | $54 \div 9=$ |
| $5 \times 8=$ | 6×9= | $90 \div 9=$ | 9×7= | $16 \div 8=$ | $10 \times 8=$ | $40 \div 8=$ | 3×9= |
| 0×9= | 24:8= | 9×9= | $8 \div 8=$ | $8 \times 7=$ | 64:8= | 9 $\div 9=$ | $5 \times 7=$ |
| 36 $\div 9=$ | 2×8= | 0×7= | $7 \times 8=$ | 5×9= | 99 $9=$ | $10 \times 7=$ | $2 \times 9=$ |
| 4×7= | 56\%8= | $14 \div 7=$ | 88:8= | $7 \times 7=$ | 6×8= | 0 $\div 8=$ | $77 \div 7=$ |
| 42 $\div 7=$ | $1 \times 9=$ | 8×9= | $45 \div 9=$ | $0 \div 7=$ | 3x8= | 2×7= | $63 \div 9=$ |
| 11×8= | $3 \times 7=$ | $7 \div 7=$ | 0x8= | 7×9= | 189: $=$ | 48 $\div 8=$ | 9×8= |
| $56 \div 7=$ | 6×7= | 729:9 | 32:8= | 287 $=$ | $70 \div 7=$ | $10 \times 9=$ | 35:7= |
| 3×9= | $11 \times 7=$ | $63 \div 7=$ | 27 $\div 9=$ | 0ㄴ9= | 11×9= | $4 \times 8=$ | 21:7= |
| 4×7= | 81 $\div$ 9 $=$ | 72:8= | 5×7= | 5×8= | 49*7= | $4 \times 7=$ | $1 \times 7=$ |
| 3×8= | 5499 | $1 \times 8=$ | $3 \times 7=$ | 80 8 8 $=$ | 8×8= | 4×9= | 4×9= |
| 4088= | 3×9= | 5x8= | 6×9= | $90 \div 9=$ | 9×7 $=$ | $16 \div 8=$ | $10 \times 8=$ |
| $9 \div 9=$ | 5×7= | 0x9= | 24:8= | 9×9= | 8 $\div 8=$ | $8 \times 7=$ | 64 $\times 8=$ |
| 10×7= | 2×9= | 5×9= | 99 $\div 9=$ | 0×7= | $7 \times 8=$ | $36 \div 9=$ | 2×8= |
| $0 \div 8=$ | $77 \div 7=$ | $7 \times 7=$ | 6x8= | $14 \div 7=$ | 88 $-8=$ | $4 \times 7=$ | 56 $\div 8=$ |
| 2x7= | $63 \div 9=$ | $0 \div 7=$ | 3×8= | 8×9= | $45 \div 9=$ | $42 \div 7=$ | $1 \times 9=$ |
| 4888= | 9×8= | 7×9= | $18 \div 9=$ | $7 \div 7=$ | 0x8= | 11×8= | $3 \times 7=$ |
| 10×9= | 35 7 7 $=$ | 28:7= | 707= | $72 \div 9=$ | 32:8= | $56 \div 7=$ | 6x7= |
| 4×8= | 21:7= | 099= | 11×9= | 63*7= | 279:9 | 3x9= | $11 \times 7=$ |
| 4×7 $=$ | $1 \times 7=$ | 5×8= | $49 \div 7=$ | 728= | $5 \times 7=$ | $4 \times 7=$ | $81 \div 9=$ |
| 4×9= | 4×9= | 80%8= | 8×8= | $1 \times 8=$ | $3 \times 7=$ | 3x8= | 549: |
| 16;8= | $10 \times 8=$ | 9099 | $9 \times 7=$ | $5 \times 8=$ | $6 \times 9=$ | 40 $-8=$ | 3×9= |
| $8 \times 7=$ | 64:8= | $9 \times 9=$ | 8% $8=$ | 0×9= | 24:8= | 9 $\div 9=$ | 5×7= |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6x2= | $1 \times 5=$ | $1 \times 3=$ | 2×3= | $1 \times 10=$ | $2 \times 4=$ | $2 \times 7=$ | 11×1= |
| $3 \times 6=$ | $3 \times 7=$ | $2 \times 7=$ | $7 \times 2=$ | $2 \times 6=$ | $0 \times 10=$ | $1 \times 3=$ | $7 \times 2=$ |
| 1×5= | $1 \times 10=$ | $9 \times 5=$ | $1 \times 7=$ | $1 \times 7=$ | $4 \times 7=$ | $6 \times 2=$ | $3 \times 7=$ |
| 11×2= | $7 \times 3=$ | $2 \times 8=$ | $1 \times 4=$ | $7 \times 10=$ | $8 \times 6=$ | $0 \times 6=$ | 0×5= |
| 5×7= | $1 \times 2=$ | $11 \times 4=$ | $8 \times 2=$ | 11×6= | 6x4= | $6 \times 5=$ | $8 \times 5=$ |
| 4×5= | $11 \times 3=$ | $8 \times 5=$ | $7 \times 6=$ | $10 \times 10=$ | $3 \times 2=$ | $11 \times 4=$ | $6 \times 10=$ |
| $1 \times 6=$ | $9 \times 5=$ | $6 \times 7=$ | $2 \times 5=$ | $2 \times 10=$ | 2×9= | $7 \times 9=$ | $8 \times 3=$ |
| $7 \times 10=$ | $6 \times 8=$ | $1 \times 2=$ | $5 \times 5=$ | $10 \times 6=$ | $3 \times 5=$ | $1 \times 10=$ | $5 \times 4=$ |
| $7 \times 7=$ | $1 \times 8=$ | 10x4= | $6 \times 3=$ | $1 \times 5=$ | $3 \times 4=$ | $4 \times 4=$ | $9 \times 2=$ |
| $9 \times 10=$ | $3 \times 6=$ | $3 \times 10=$ | $8 \times 7=$ | $9 \times 6=$ | $1 \times 6=$ | $2 \times 5=$ | $3 \times 8=$ |
| $8 \times 7=$ | $0 \times 2=$ | $11 \times 8=$ | $9 \times 7=$ | $2 \times 2=$ | $5 \times 5=$ | $8 \times 6=$ | $9 \times 6=$ |
| 5×2= | $10 \times 7=$ | $9 \times 4=$ | $4 \times 10=$ | 11×9= | $10 \times 8=$ | $10 \times 2=$ | $10 \times 5=$ |
| 2×6= | $1 \times 8=$ | 0×5= | $9 \times 4=$ | $1 \times 9=$ | $2 \times 4=$ | $11 \times 7=$ | $7 \times 3=$ |
| $1 \times 4=$ | $2 \times 10=$ | $4 \times 8=$ | $5 \times 3=$ | $0 \times 10=$ | $2 \times 8=$ | $6 \times 6=$ | $7 \times 6=$ |
| 5×8= | $7 \times 8=$ | $5 \times 4=$ | 4×10= | $8 \times 8=$ | $7 \times 5=$ | 9×8= | 6×9= |
| $10 \times 10=$ | $8 \times 10=$ | $11 \times 8=$ | $2 \times 2=$ | $3 \times 8=$ | $10 \times 8=$ | $3 \times 5=$ | $7 \times 7=$ |
| $1 \times 9=$ | $6 \times 5=$ | $7 \times 9=$ | $1 \times 10=$ | $4 \times 2=$ | $10 \times 10=$ | 6×6= | $3 \times 2=$ |
| 8×9= | $5 \times 7=$ | 9×9= | 6×9= | $5 \times 10=$ | $11 \times 7=$ | $0 \times 3=$ | $9 \times 8=$ |
| $10 \times 2=$ | $3 \times 9=$ | $9 \times 2=$ | $10 \times 3=$ | $10 \times 9=$ | $7 \times 5=$ | $5 \times 10=$ | $4 \times 4=$ |
| 11×9= | 6x8= | $1 \times 3=$ | $6 \times 10=$ | $3 \times 3=$ | $2 \times 3=$ | 5×9= | $6 \times 4=$ |
| $8 \times 4=$ | $2 \times 5=$ | $4 \times 7=$ | $0 \times 5=$ | $8 \times 4=$ | $3 \times 4=$ | 6×10= | $6 \times 5=$ |
| 4×9= | 5×4= | 3×4= | $4 \times 4=$ | $2 \times 3=$ | $7 \times 10=$ | $3 \times 3=$ | $1 \times 4=$ |
| 2×5= | $6 \times 10=$ | $11 \times 3=$ | $2 \times 2=$ | $2 \times 9=$ | $2 \times 4=$ | $5 \times 6=$ | $3 \times 2=$ |
| 6x4= | $4 \times 6=$ | $3 \times 5=$ | $10 \times 4=$ | 11x8= | $11 \times 4=$ | 10×5= | $1 \times 6=$ |
| $10 \times 7=$ | $4 \times 3=$ | $10 \times 9=$ | $10 \times 6=$ | $3 \times 6=$ | $2 \times 10=$ | $2 \times 6=$ | $4 \times 3=$ |
| 5×3= | $9 \times 2=$ | $8 \times 10=$ | $4 \times 6=$ | $10 \times 5=$ | $4 \times 2=$ | 6×7= | $11 \times 3=$ |
| 7×4= | $5 \times 6=$ | $2 \times 10=$ | $3 \times 10=$ | $6 \times 6=$ | 5×9= | $7 \times 6=$ | $8 \times 6=$ |
| 0×2= | $9 \times 3=$ | $7 \times 5=$ | $4 \times 6=$ | $8 \times 9=$ | $11 \times 6=$ | $9 \times 3=$ | $3 \times 10=$ |
| 9×6= | $5 \times 8=$ | $8 \times 3=$ | 5×5= | $10 \times 6=$ | $4 \times 5=$ | $1 \times 7=$ | $2 \times 7=$ |
| $11 \times 6=$ | $10 \times 5=$ | $4 \times 5=$ | $7 \times 10=$ | $4 \times 8=$ | $3 \times 7=$ | $10 \times 4=$ | $8 \times 8=$ |
| $3 \times 5=$ | $8 \times 4=$ | $4 \times 7=$ | $6 \times 7=$ | $9 \times 10=$ | $7 \times 7=$ | $9 \times 7=$ | $7 \times 2=$ |
| $8 \times 10=$ | $9 \times 7=$ | $4 \times 2=$ | $9 \times 4=$ | $11 \times 7=$ | $4 \times 5=$ | $5 \times 5=$ | $10 \times 7=$ |
| 3×8= | $7 \times 3=$ | $3 \times 3=$ | $0 \times 10=$ | $3 \times 10=$ | 6×3= | $7 \times 4=$ | $10 \times 8=$ |
| 5×2= | $1 \times 2=$ | $6 \times 8=$ | $5 \times 7=$ | $3 \times 9=$ | $1 \times 8=$ | 5×6= | $9 \times 5=$ |
| $8 \times 3=$ | 7×4= | $8 \times 5=$ | $5 \times 3=$ | $1 \times 5=$ | $11 \times 8=$ | $0 \times 2=$ | 2×8= |
| 6×5= | $4 \times 10=$ | $6 \times 3=$ | $5 \times 2=$ | $1 \times 9=$ | $7 \times 8=$ | $8 \times 7=$ | $9 \times 8=$ |
| 9×3= | 9×5= | $5 \times 8=$ | $7 \times 8=$ | 9×9= | $8 \times 2=$ | $4 \times 3=$ | $7 \times 5=$ |
| 6x2= | 3×9= | $5 \times 10=$ | $2 \times 9=$ | $10 \times 10=$ | 4×9= | $9 \times 10=$ | 5×9= |
| $4 \times 8=$ | $8 \times 10=$ | $4 \times 9=$ | 9×10 $=$ | 9×9= | $10 \times 9=$ | 6×9= | $10 \times 3=$ |
| $8 \times 9=$ | 7×9= | $8 \times 2=$ | $10 \times 3=$ | $8 \times 8=$ | $5 \times 10=$ | $4 \times 10=$ | $10 \times 2=$ |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 100 $\div 10=$ | $2 \times 5=$ | 24:8= | $4 \times 7=$ | $1 \times 6=$ | 5×3= | $9 \times 9=$ | $44 \div 4=$ |
| $1 \times 1=$ | 1×8= | $1 \times 4=$ | $33 \div 3=$ | $3 \times 2=$ | $1 \times 3=$ | $1 \times 0=$ | $3 \times 7=$ |
| $1 \times 3=$ | $6 \times 2=$ | $9 \times 4=$ | $8 \times 10=$ | $32 \div 8=$ | 459: $=$ | $11 \times 5=$ | 1×11= |
| 6x4= | $6 \times 9=$ | 30 $5=$ | $11 \times 3=$ | $2 \times 2=$ | 22:2= | $5 \times 4=$ | $60 \div 10=$ |
| $7 \times 6=$ | $4 \times 4=$ | $18 \div 6=$ | $5 \times 5=$ | $5 \times 8=$ | $6 \times 1=$ | $3 \times 5=$ | $8 \times 4=$ |
| $5 \times 10=$ | 56 $77=$ | $4 \times 3=$ | $10 \times 7=$ | $2 \times 5=$ | $8 \times 3=$ | $81 \div 9=$ | $3 \div 3=$ |
| $4 \div 1=$ | 25 $\div 5=$ | 90 $\div 10=$ | $8 \div 1=$ | 2×11= | $77 \div 7=$ | $3 \times 6=$ | $2 \times 4=$ |
| $7 \times 4=$ | 72:8= | 102= | $2 \times 6=$ | $2 \times 10=$ | $14 \div 2=$ | $14 \div 7=$ | $5 \times 1=$ |
| $12 \div 6=$ | $5 \div 1=$ | $36 \div 4=$ | $10 \times 8=$ | $2 \times 1=$ | 9×5= | 9×0= | $0 \times 10=$ |
| 0×9= | $6 \times 6=$ | $4 \times 9=$ | 11×6= | $2 \times 7=$ | 2×3= | 99*11= | $4 \times 5=$ |
| $3 \times 0=$ | 11×2= | $5 \times 11=$ | 20 $4=$ | $1 \times 5=$ | $70 \div 10=$ | $45 \div 5=$ | $1 \div 1=$ |
| $63 \div 7=$ | $5 \times 4=$ | $40 \div 8=$ | $1 \times 6=$ | $44 \div 11=$ | 10×2= | 6 $\div 3=$ | 707 $=$ |
| 8×5= | $80 \div 10=$ | $1 \times 7=$ | $11 \times 10=$ | $48 \div 6=$ | 10x4= | 2 $2=$ | 9 $11=$ |
| 16 $\div 4=$ | $9 \times 1=$ | $18 \div 3=$ | $8 \times 11=$ | $2 \times 8=$ | $2 \times 4=$ | 9 $9=$ | $8 \times 5=$ |
| 729:9 | $1 \times 2=$ | 9×6= | $4 \times 3=$ | 909: | $11 \times 5=$ | $3 \times 3=$ | $10 \times 6=$ |
| 3×4= | $10 \times 3=$ | $10 \times 10=$ | $5 \div 5=$ | $2 \times 3=$ | 808ㅇ | $4 \times 6=$ | $3 \times 9=$ |
| 66*11= | $3 \times 6=$ | 1×8= | $5 \times 2=$ | $40 \div 4=$ | $6 \times 0=$ | $24 \div 3=$ | $4 \times 5=$ |
| $7 \times 8=$ | $6 \times 7=$ | $110 \div 11=$ | 189:9 | $11 \times 7=$ | $9 \times 8=$ | $3 \times 8=$ | 21:7= |
| $11 \times 4=$ | $30 \div 3=$ | $55 \div 5=$ | $8 \times 6=$ | $11 \times 6=$ | $1 \times 9=$ | $30 \div 10=$ | 9×4= |
| $4 \times 11=$ | $1 \times 10=$ | 11 $11=$ | $1 \times 7=$ | $2 \times 7=$ | $10 \div 1=$ | $10 \times 7=$ | 6066 |
| 6×8= | $1 \times 5=$ | $16 \div 2=$ | $9 \div 3=$ | $4 \div 2=$ | $11 \times 11=$ | $24 \div 4=$ | $7 \times 11=$ |
| $7 \times 7=$ | $8 \div 2=$ | $88 \div 8=$ | $10 \times 0=$ | 50 $10=$ | $3 \times 7=$ | 4×8= | $36 \div 9=$ |
| $7 \times 6=$ | $3 \times 8=$ | $6 \div 1=$ | $12 \div 4=$ | $5 \times 5=$ | $5 \times 9=$ | 2055= | $3 \times 3=$ |
| 40-10= | 32-4= | 77-11= | 24:6= | $5 \times 0=$ | 5×6= | 30 $6=$ | $4 \times 2=$ |
| $4 \times 4=$ | 66:6= | 5×3= | 6×6= | 639= | 2844 $=$ | $15 \div 3=$ | $9 \times 7=$ |
| 42 $\div 6=$ | $3 \times 11=$ | $1 \times 9=$ | $54 \div 6=$ | $27 \div 3=$ | 9 $\times 2=$ | $4 \times 8=$ | $4 \times 1=$ |
| 16:8= | $40 \div 5=$ | $8 \times 1=$ | $6 \times 5=$ | 2×8= | 15*5= | $55 \div 11=$ | $4 \times 6=$ |
| $6 \times 7=$ | $7 \times 8=$ | $2 \times 0=$ | 287 $=$ | 202= | 12:2= | 50ㄴ5= | $6 \times 10=$ |
| 9×3= | $4 \times 10=$ | $7 \times 5=$ | $88 \div 11=$ | $8 \div 4=$ | 2x9= | $4 \times 7=$ | $10 \times 5=$ |
| 7×5= | $5 \times 7=$ | $18 \div 2=$ | $3 \times 1=$ | 6×3= | 2x6= | $11 \times 0=$ | $4 \div 4=$ |
| $11 \times 9=$ | $10 \times 6=$ | $1 \times 4=$ | 5499 | 36*6= | $7 \times 4=$ | 8 $\div 8=$ | $10 \div 5=$ |
| 7×2= | $7 \times 0=$ | $7 \div 1=$ | $4 \times 0=$ | $3 \times 5=$ | $3 \times 10=$ | 5x8= | $110 \div 10=$ |
| 64:8= | 10x4= | 2010= | $5 \times 7=$ | $6 \times 3=$ | $7 \times 3=$ | $48 \div 8=$ | $7 \times 3=$ |
| $7 \times 7=$ | $11 \times 7=$ | 5×6= | 33*11= | $11 \times 4=$ | $10 \times 9=$ | 9x5 $=$ | $8 \times 4=$ |
| 8×9= | $3 \div 1=$ | $3 \times 4=$ | $8 \times 6=$ | $8 \times 7=$ | 6x5= | 8×0= | 7×9= |
| 10×1= | 9×11= | $49 \div 7=$ | 56% $=$ | $21 \div 3=$ | 12*3= | 35:7= | 2 $\div 1=$ |
| 35 $\div 5=$ | 27-9= | $10 \times 3=$ | $7 \times 1=$ | $7 \times 10=$ | $6 \div 6=$ | $6 \div 2=$ | $11 \times 3=$ |
| $9 \times 8=$ | 22 $\div 11=$ | $8 \times 7=$ | $10 \times 5=$ | $8 \times 2=$ | $6 \times 11=$ | $9 \times 10=$ | $11 \times 8=$ |
| 7 $\div 7=$ | $6 \times 4=$ | $6 \times 8=$ | $9 \times 3=$ | $42 \div 7=$ | $9 \times 7=$ | $10 \times 8=$ | 9×6= |
| 10 $\div 10=$ | $8 \times 8=$ | $11 \times 1=$ | $11 \times 8=$ | 10×11= | 11 $11=$ | $8 \times 8=$ | $8 \times 3=$ |


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| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6×12= | $12 \times 5=$ | $11 \times 3=$ | $12 \times 3=$ | $11 \times 10=$ | 12x4= | $12 \times 7=$ | $11 \times 11=$ |
| $3 \times 6=$ | $3 \times 7=$ | $2 \times 7=$ | $7 \times 12=$ | $2 \times 6=$ | $0 \times 12=$ | $12 \times 3=$ | $7 \times 12=$ |
| 11×5= | $12 \times 10=$ | 9×5= | $11 \times 7=$ | 11×7= | $4 \times 7=$ | $6 \times 12=$ | $3 \times 7=$ |
| $11 \times 12=$ | $7 \times 3=$ | 12×8= | $11 \times 4=$ | $7 \times 10=$ | $8 \times 6=$ | $12 \times 12=$ | 11×5= |
| $5 \times 7=$ | $12 \times 12=$ | $11 \times 4=$ | $8 \times 12=$ | $11 \times 6=$ | $6 \times 4=$ | $6 \times 5=$ | $8 \times 5=$ |
| $4 \times 5=$ | $11 \times 11=$ | $8 \times 5=$ | $7 \times 6=$ | $10 \times 10=$ | $3 \times 12=$ | $11 \times 4=$ | $6 \times 10=$ |
| $11 \times 6=$ | $9 \times 5=$ | 6×7= | $12 \times 5=$ | $12 \times 10=$ | $2 \times 9=$ | $7 \times 9=$ | $8 \times 3=$ |
| $7 \times 10=$ | $6 \times 8=$ | $11 \times 12=$ | $5 \times 5=$ | $10 \times 6=$ | $3 \times 5=$ | $11 \times 10=$ | $5 \times 4=$ |
| $7 \times 7=$ | $11 \times 8=$ | $10 \times 4=$ | $6 \times 3=$ | $12 \times 5=$ | $3 \times 4=$ | $4 \times 4=$ | $9 \times 12=$ |
| 9×10 $=$ | $3 \times 6=$ | $3 \times 10=$ | $8 \times 7=$ | 9×6= | $12 \times 6=$ | $12 \times 5=$ | $3 \times 8=$ |
| $8 \times 7=$ | 0×12= | $11 \times 8=$ | $9 \times 7=$ | 12×12= | $5 \times 5=$ | $8 \times 6=$ | $9 \times 6=$ |
| $5 \times 12=$ | $10 \times 7=$ | $9 \times 4=$ | $4 \times 10=$ | $11 \times 9=$ | $10 \times 8=$ | $10 \times 12=$ | $10 \times 5=$ |
| $2 \times 6=$ | $11 \times 8=$ | 0×5= | $9 \times 4=$ | $12 \times 9=$ | $12 \times 4=$ | $11 \times 7=$ | $7 \times 3=$ |
| 11×4= | $12 \times 10=$ | $4 \times 8=$ | $5 \times 3=$ | 11×11= | $12 \times 8=$ | $6 \times 6=$ | $7 \times 6=$ |
| $5 \times 8=$ | $7 \times 8=$ | $11 \times 11=$ | $4 \times 10=$ | $8 \times 8=$ | $7 \times 5=$ | 9x8= | 6×9= |
| $10 \times 10=$ | $8 \times 10=$ | $11 \times 8=$ | $12 \times 2=$ | $3 \times 8=$ | $10 \times 8=$ | $3 \times 5=$ | $7 \times 7=$ |
| $12 \times 9=$ | $6 \times 5=$ | $7 \times 9=$ | $12 \times 10=$ | $4 \times 12=$ | $10 \times 10=$ | 6×6= | $3 \times 12=$ |
| $8 \times 9=$ | $9 \times 7=$ | 9×9= | $6 \times 9=$ | $5 \times 10=$ | $11 \times 7=$ | $12 \times 3=$ | $9 \times 8=$ |
| $10 \times 2=$ | $3 \times 9=$ | $9 \times 12=$ | 12×3= | $10 \times 9=$ | $7 \times 5=$ | $5 \times 10=$ | $4 \times 4=$ |
| 11×9= | $6 \times 8=$ | $12 \times 3=$ | $6 \times 10=$ | $3 \times 3=$ | $12 \times 3=$ | 5×9= | 6x4= |
| $8 \times 4=$ | $12 \times 5=$ | $4 \times 7=$ | $12 \times 5=$ | $8 \times 4=$ | $3 \times 4=$ | $6 \times 10=$ | 6×5= |
| $4 \times 9=$ | $9 \times 4=$ | $3 \times 4=$ | $4 \times 4=$ | $12 \times 3=$ | $7 \times 10=$ | $3 \times 3=$ | $12 \times 4=$ |
| $12 \times 5=$ | $6 \times 10=$ | $11 \times 3=$ | $12 \times 12=$ | $2 \times 9=$ | $12 \times 4=$ | $5 \times 6=$ | $3 \times 12=$ |
| $6 \times 4=$ | $4 \times 6=$ | $3 \times 5=$ | 10x4= | $11 \times 8=$ | $11 \times 4=$ | $10 \times 5=$ | $12 \times 6=$ |
| $10 \times 7=$ | $4 \times 3=$ | 10x9= | 10x6= | $3 \times 6=$ | $12 \times 10=$ | $12 \times 6=$ | $4 \times 3=$ |
| $5 \times 3=$ | $9 \times 12=$ | $8 \times 12=$ | $4 \times 6=$ | $10 \times 5=$ | $4 \times 12=$ | $6 \times 7=$ | $11 \times 3=$ |
| $7 \times 4=$ | $8 \times 6=$ | $12 \times 10=$ | $3 \times 10=$ | $6 \times 6=$ | $5 \times 9=$ | 7×6= | $8 \times 6=$ |
| $11 \times 12=$ | $9 \times 3=$ | $7 \times 5=$ | $12 \times 6=$ | 8×9= | $11 \times 6=$ | $9 \times 3=$ | $3 \times 10=$ |
| $9 \times 6=$ | 5×8= | $8 \times 3=$ | $5 \times 5=$ | $10 \times 6=$ | $4 \times 5=$ | $12 \times 7=$ | $12 \times 8=$ |
| 11×6= | $10 \times 5=$ | $4 \times 5=$ | $7 \times 10=$ | 4×8= | $3 \times 7=$ | $12 \times 4=$ | $8 \times 8=$ |
| $3 \times 6=$ | $8 \times 4=$ | $4 \times 7=$ | $6 \times 7=$ | $11 \times 11=$ | $7 \times 7=$ | $9 \times 7=$ | $7 \times 12=$ |
| $8 \times 10=$ | $9 \times 7=$ | $4 \times 12=$ | $9 \times 4=$ | $11 \times 7=$ | $4 \times 5=$ | $5 \times 5=$ | $12 \times 7=$ |
| 12x8= | $7 \times 3=$ | $3 \times 3=$ | $12 \times 10=$ | $3 \times 10=$ | $6 \times 3=$ | $7 \times 4=$ | $7 \times 8=$ |
| $5 \times 12=$ | $12 \times 2=$ | 6x8= | $5 \times 7=$ | 3x9= | $12 \times 8=$ | 5×6= | $9 \times 5=$ |
| $8 \times 3=$ | $7 \times 4=$ | $8 \times 5=$ | $5 \times 3=$ | $12 \times 5=$ | $11 \times 8=$ | $12 \times 12=$ | $12 \times 8=$ |
| $6 \times 6=$ | $4 \times 12=$ | $6 \times 3=$ | $5 \times 12=$ | $11 \times 9=$ | $7 \times 8=$ | $8 \times 7=$ | $9 \times 8=$ |
| $9 \times 3=$ | $9 \times 5=$ | $5 \times 8=$ | $7 \times 8=$ | 9x9= | $8 \times 12=$ | $4 \times 3=$ | $7 \times 5=$ |
| 6x12= | 3×9= | $5 \times 10=$ | 12×9= | $10 \times 10=$ | $4 \times 9=$ | $9 \times 10=$ | $5 \times 9=$ |
| $4 \times 8=$ | $8 \times 12=$ | $4 \times 9=$ | $9 \times 10=$ | 12×9= | 10×9= | 6×9= | $12 \times 3=$ |
| $8 \times 9=$ | $7 \times 9=$ | $8 \times 12=$ | $10 \times 3=$ | 8×8= | 5×9= | $4 \times 10=$ | $10 \times 12=$ |


| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 100 $\div 10=$ | $12 \times 5=$ | 24:8= | $4 \times 7=$ | 12×6= | $5 \times 3=$ | $9 \times 9=$ | $44 \div 4=$ |
| 12×1= | $12 \times 8=$ | $12 \times 4=$ | $33 \div 3=$ | 24 $\div 12=$ | $12 \times 3=$ | $12 \times 0=$ | $3 \times 7=$ |
| 12*3= | 6×12= | 9×4= | $8 \times 12=$ | 32 $\div 8=$ | 459= | 6055= | $11 \times 11=$ |
| $6 \times 4=$ | 108 $\div 9=$ | 30:5= | $12 \times 3=$ | 2×12= | 22 $\div 2=$ | $5 \times 4=$ | $60 \div 10=$ |
| $12 \times 6=$ | 48 $\div 12=$ | $18 \div 6=$ | $5 \times 5=$ | $5 \times 8=$ | $6 \times 12=$ | $3 \times 5=$ | $8 \times 4=$ |
| $5 \times 10=$ | $56 \div 7=$ | $4 \times 3=$ | $12 \times 7=$ | $12 \times 5=$ | $8 \times 3=$ | 81 $\div 9=$ | $3 \div 3=$ |
| $12 \div 1=$ | 25:5= | 9010= | $144 \div 12=$ | $12 \times 11=$ | $77 \div 7=$ | $3 \times 6=$ | $12 \times 4=$ |
| 7×4= | 72%8= | $10 \div 2=$ | $12 \times 6=$ | 12010= | 14-2= | $14 \div 7=$ | $5 \times 11=$ |
| 12\%6= | 2555= | $36 \div 4=$ | $10 \times 8=$ | $11 \times 11=$ | 9×5= | $9 \times 6=$ | $120 \div 10=$ |
| 12×9 $=$ | 6×6= | 4×9= | $11 \times 6=$ | $12 \times 7=$ | 18:3= | 99 $-11=$ | $4 \times 5=$ |
| $3 \times 12=$ | $11 \times 12=$ | $5 \times 12=$ | 204: | $60 \div 5=$ | $70 \div 10=$ | $45 \div 5=$ | $132 \div 11=$ |
| $63 \div 7=$ | $5 \times 4=$ | $40 \div 8=$ | $72 \div 6=$ | 4411 $=$ | $10 \times 2=$ | $6 \div 3=$ | 707 = |
| $8 \times 5=$ | 80*10= | $12 \times 7=$ | $11 \times 11=$ | $48 \div 6=$ | $10 \times 4=$ | 2 $\div 2=$ | 144:12= |
| 16:4= | $9 \times 12=$ | $18 \div 3=$ | $8 \times 11=$ | $12 \times 8=$ | $12 \times 4=$ | $9 \div 9=$ | $8 \times 5=$ |
| $72 \div 9=$ | $12 \times 12=$ | 9×6= | $4 \times 3=$ | 9099 $=$ | 11×5= | 3×3= | $12 \times 6=$ |
| 12×4= | $27 \div 3=$ | $12 \times 12=$ | 5 $\div 5=$ | $12 \times 3=$ | $80 \div 8=$ | $4 \times 6=$ | $3 \times 9=$ |
| 66*11= | $72 \div 6=$ | $12 \times 8=$ | $5 \times 12=$ | $40 \div 4=$ | 6×12= | 243: | $4 \times 5=$ |
| $7 \times 8=$ | $6 \times 7=$ | 110 $\div 11=$ | 108 $\div 9=$ | $63 \div 7=$ | $9 \times 8=$ | 3×8= | $21 \div 7=$ |
| 12:4 $=$ | $33 \div 3=$ | $84 \div 12=$ | $8 \times 6=$ | $11 \times 6=$ | $12 \times 9=$ | $30 \div 10=$ | $9 \times 4=$ |
| $4 \times 12=$ | $12 \times 10=$ | 121:11= | $12 \times 7=$ | $2 \times 7=$ | $10 \div 1=$ | $10 \times 7=$ | 606= |
| 6×8= | $12 \times 5=$ | $16 \div 2=$ | $9 \div 3=$ | $14 \div 2=$ | $11 \times 11=$ | 24*4= | $7 \times 12=$ |
| $7 \times 7=$ | $18 \div 2=$ | 96:8= | $110 \div 11=$ | 5010= | $3 \times 7=$ | 4×8= | $36 \div 9=$ |
| $7 \times 6=$ | 96:8= | 72:12= | $12 \div 4=$ | $5 \times 5=$ | 5×9= | 2055= | 3×3= |
| $40 \div 10=$ | 32 $\div 4=$ | $77 \div 11=$ | 24\%6= | $5 \times 0=$ | $5 \times 6=$ | 306= | $4 \times 12=$ |
| 4×4= | 66:6= | 5×3= | 6×6= | $63 \div 9=$ | 284: | $15 \div 3=$ | $9 \times 7=$ |
| 42 $\div 6=$ | $3 \times 12=$ | $12 \times 9=$ | 54*6= | $27 \div 3=$ | $9 \times 12=$ | $4 \times 8=$ | $48 \div 12=$ |
| 16*8= | $40 \div 5=$ | $8 \times 12=$ | 6x5= | $12 \times 8=$ | 1555= | 55*11= | $4 \times 6=$ |
| $6 \times 7=$ | 7×8= | $12 \times 0=$ | 28 $\div 7=$ | $20 \div 2=$ | 12 $\div 2=$ | 50ㄴ5= | $6 \times 12=$ |
| $9 \times 3=$ | $4 \times 12=$ | $7 \times 5=$ | $88 \div 11=$ | $48 \div 4=$ | 2×9= | $4 \times 7=$ | $12 \times 5=$ |
| 605 = | $5 \times 7=$ | $18 \div 2=$ | $3 \times 12=$ | 6×3= | $48 \div 6=$ | 11×11= | $48 \div 4=$ |
| $12 \times 9=$ | $12 \times 6=$ | $12 \times 4=$ | 54 $9=$ | $36 \div 6=$ | $7 \times 4=$ | 64:8= | 60 $5=$ |
| 7×12= | $7 \div 0=$ | 108 $\div 9=$ | 12×12= | 3x5= | $3 \times 10=$ | $5 \times 8=$ | 110 $10=$ |
| 64:8= | 12x4= | $120 \div 12=$ | $5 \times 7=$ | $27 \div 3=$ | $7 \times 3=$ | 4888= | $7 \times 3=$ |
| 7×7= | $12 \times 7=$ | $5 \times 6=$ | $33 \div 11=$ | $11 \times 4=$ | $10 \times 9=$ | 9×5= | $8 \times 4=$ |
| 8×9= | $32 \div 8=$ | $3 \times 4=$ | 8×6= | $8 \times 7=$ | 6×5= | $8 \times 12=$ | 7×9= |
| 10×12= | 9×12= | $49 \div 7=$ | $56 \div 8=$ | $21 \div 3=$ | $12 \div 3=$ | 35*7= | $144 \div 12=$ |
| 35*5= | 279: $=$ | $12 \times 3=$ | $7 \times 12=$ | $7 \times 10=$ | $6 \div 6=$ | $18 \div 2=$ | $11 \times 3=$ |
| 9×8= | 22*11= | $8 \times 7=$ | $10 \times 5=$ | $8 \times 2=$ | $6 \times 11=$ | $9 \times 12=$ | $72 \div 8=$ |
| $84 \div 7=$ | $6 \times 4=$ | 6x8= | 9x3= | 42 $77=$ | $9 \times 7=$ | $108 \div 9=$ | 9×6= |
| 12010= | $8 \times 8=$ | $11 \times 12=$ | $11 \times 8=$ | 121 $11=$ | 11:11= | 8×8= | $8 \times 3=$ |

