

HOW ADDING CAN HELP

ADDING CAN CREATE SHORTCUTS FOR MULTIPLICATION.



HELPFUL EXAMPLE

$$\begin{aligned} 2 \times 3 &= 3 + 3 = 6 \\ 3 \times 3 &= 3 + 3 + 3 = 9 \\ 4 \times 3 &= 3 + 3 + 3 + 3 = 12 \end{aligned}$$

OR

$$\begin{aligned} 2 \times 3 &= 6 \\ 3 \times 3 &= 6 + 3 = 9 \\ 4 \times 3 &= 9 + 3 = 12 \end{aligned}$$

YOU'RE JUST ADDING 3 TO THE ANSWER ABOVE.

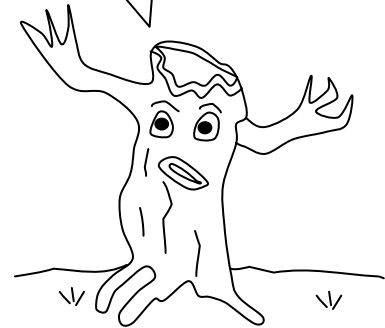


HOW ABOUT...

$$\begin{aligned} 5 \times 3 &= 12 + 3 = \square \\ 6 \times 3 &= \square + 3 = \square \\ 7 \times 3 &= \square + 3 = \square \end{aligned}$$

- $3 \times 6 = 18$
 $4 \times 6 = \square + 6 = \square$
- $7 \times 8 = 56$
 $8 \times 8 = \square + 8 = \square$
- $4 \times 12 = 48$
 $5 \times 12 = \square + 12 = \square$
- $6 \times 7 = 42$
 $7 \times 7 = \square + 7 = \square$

WOW, THIS ISN'T SCARY AT ALL ONCE YOU SEE THE PATTERN.



PRACTICE

NAME: _____

$$\begin{array}{r} 1. \quad 2 \times 5 = \frac{10}{3 \times 5 = 15} \end{array} \begin{array}{l} \curvearrowright +5 \\ \curvearrowleft \end{array}$$

$$\begin{array}{r} 2. \quad 3 \times 4 = \frac{\quad}{4 \times 4 = \quad} \end{array} \begin{array}{l} \curvearrowright +4 \\ \curvearrowleft \end{array}$$

$$\begin{array}{r} 3. \quad 5 \times 6 = \underline{\quad} \\ 6 \times 6 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 4. \quad 7 \times 6 = \underline{\quad} \\ 8 \times 6 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 5. \quad 2 \times 8 = \underline{\quad} \\ 3 \times 8 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 6. \quad 3 \times 7 = \underline{\quad} \\ 4 \times 7 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 7. \quad 5 \times 12 = \underline{\quad} \\ 6 \times 12 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 8. \quad 4 \times 3 = \underline{\quad} \\ 5 \times 3 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 9. \quad 6 \times 3 = \underline{\quad} \\ 7 \times 3 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 10. \quad 7 \times 7 = \underline{\quad} \\ 8 \times 7 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 11. \quad 5 \times 4 = \underline{\quad} \\ 6 \times 4 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 12. \quad 4 \times 8 = \underline{\quad} \\ 5 \times 8 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 13. \quad 4 \times 5 = \underline{\quad} \\ 5 \times 5 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 14. \quad 8 \times 6 = \underline{\quad} \\ 9 \times 6 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 15. \quad 10 \times 11 = \underline{\quad} \\ 11 \times 11 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 16. \quad 6 \times 14 = \underline{\quad} \\ 7 \times 14 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 17. \quad 7 \times 13 = \underline{\quad} \\ 8 \times 13 = \underline{\quad} \end{array}$$

$$\begin{array}{r} 18. \quad 11 \times 9 = \underline{\quad} \\ 12 \times 9 = \underline{\quad} \end{array}$$