

Mental math — Mixed strategies

Name: _____

Date: _____



Find the easy way, then work it out.

$$\begin{aligned} 1 \quad 305 + 101 \\ &= 305 + 100 + 1 \\ &= \underline{405} + 1 \\ &= \underline{406} \end{aligned}$$

$$\begin{aligned} 2 \quad 11 \times 18 \\ &= 11 \times 10 + 11 \times 8 \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 3 \quad 475 \div 25 \\ &= 475 \times 4 \div 100 \\ &= \underline{\quad} \div 100 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 4 \quad 25 \times 17 \times 4 \\ &= 25 \times 4 \times 17 \\ &= \underline{\quad} \times 17 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 5 \quad 815 \div 5 \\ &= 815 \times 2 \div 10 \\ &= \underline{\quad} \div 10 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 6 \quad 338 - 46 - 54 \\ &= 338 - (46 + 54) \\ &= 338 - \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 7 \quad 669 - 299 \\ &= 669 - 300 + 1 \\ &= \underline{\quad} + 1 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 8 \quad 101 \times 23 \\ &= (100 + 1) \times 23 \\ &= \underline{\quad} + \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 9 \quad 61 \times 4 - 11 \times 4 \\ &= (61 - 11) \times 4 \\ &= \underline{\quad} \times 4 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 10 \quad 68 + 20 + 32 \\ &= (68 + 32) + 20 \\ &= \underline{\quad} + 20 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 11 \quad 628 \div 4 \\ &= 628 \div 2 \div 2 \\ &= \underline{\quad} \div 2 \\ &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} 12 \quad 29 \times 3 \\ &= (30 - 1) \times 3 \\ &= \underline{\quad} - \underline{\quad} \\ &= \underline{\quad} \end{aligned}$$



Mental math · Mixed strategies — Answer key



1. $305 + 101 = 305 + 100 + 1 = 405 + 1 = 406$

2. $11 \times 18 = 11 \times 10 + 11 \times 8 = 110 + 88 = 198$

3. $475 \div 25 = 475 \times 4 \div 100 = 1900 \div 100 = 19$

4. $25 \times 17 \times 4 = 25 \times 4 \times 17 = 100 \times 17 = 1700$

5. $815 \div 5 = 815 \times 2 \div 10 = 1630 \div 10 = 163$

6. $338 - 46 - 54 = 338 - (46 + 54) = 338 - 100 = 238$

7. $669 - 299 = 669 - 300 + 1 = 369 + 1 = 370$

8. $101 \times 23 = (100 + 1) \times 23 = 2300 + 23 = 2323$

9. $61 \times 4 - 11 \times 4 = (61 - 11) \times 4 = 50 \times 4 = 200$

10. $68 + 20 + 32 = (68 + 32) + 20 = 100 + 20 = 120$

11. $628 \div 4 = 628 \div 2 \div 2 = 314 \div 2 = 157$

12. $29 \times 3 = (30 - 1) \times 3 = 90 - 3 = 87$