Multidigit Multiplication Strategies Menu Mental Math and Estimation

Mental Strategies

Using Simpler Numbers

$$205 \times 8 = (200 \times 8) + (5 \times 8)$$
$$= 1600 + 40$$
$$= 1640$$

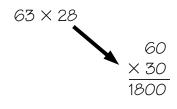


$$72 \times 99 = (72 \times 100) - 72$$

= $7200 - 72$
= 7128

Using Convenient Numbers to Estimate

Other Methods I Use



1800 is a reasonable estimate.



Halving and Doubling

264 × 5

I know multiplying by 10 is easier than multiplying by 5. I double 5 to 10 and I take $\frac{1}{2}$ of 264 which is 132. 132 \times 10 = 1320. Or I could multiply 264 \times 10 = 2640 and take half of that: 1320.



Finding a Range

45 × 65

The exact answer will be between 2400 and 3500, or about 3000.

