

Estimate Products by 2-Digit Numbers

You can use rounding and compatible numbers to estimate products.

Use mental math and rounding to estimate the product.

Estimate. $62 \times \$23$

Step 1 Round each factor to the nearest ten.

62 rounds to **60**.
\$23 rounds to **\$20**.

Step 2 Rewrite the problem using the rounded numbers. $60 \times \$20$

Step 3 Use mental math.

$6 \times \$2 = \12
 $6 \times \$20 = \120
 $60 \times \$20 = \$1,200$

So, $62 \times \$23$ is about **\$1,200**.

Use mental math and compatible numbers to estimate the product.

Estimate. 24×78

Step 1 Use compatible numbers. 25×80

Step 2 Use $25 \times 4 = 100$ to help find 25×8 .
 $25 \times 8 = \mathbf{200}$

Step 3 Since 80 has 1 zero, write 1 zero to the right of the product.

So, 24×78 is about **2,000**.

24×78
↓ ↓
 $25 \times 80 = 2,000$

Estimate the product. Choose a method.

1 78×21

2 $59 \times \$46$

3 81×33

4 67×21

5 $88 \times \$42$

6 51×36

7 73×73

8 $99 \times \$44$

9 92×19

10 26×37

11 89×18

12 58×59