

# Estimating in Various Ways

NCTM Standards 1, 2, 7, 8, 9

Estimate the products.

$$23 \times 82$$

### Example 1

Estimate:

$$\underline{25} \times \underline{80} = \underline{2,000}$$

### Example 2

Estimate:

$$\underline{20} \times \underline{80} = \underline{1,600}$$

**1**  $49 \times 22$

Estimate:

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

**2**  $32 \times 11$

Estimate:

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

**3**  $39 \times 93$

Estimate:

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

**4**  $24 \times 37$

Estimate:

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

**5**  $66 \times 64$

Estimate:

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

**6**  $122 \times 41$

Estimate:

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

7 Show two different ways to estimate the product  $26 \times 42$ .

Estimate 1

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

Estimate 2

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_



8 How can you use the fact  $33 \times 3 = 99$  to estimate  $332 \times 29$ ?

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Estimate:

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_



9 **Challenge** Jenna estimated the product  $42 \times 14$  by using the product  $40 \times 10$ . Her friend Miccah used the estimate  $45 \times 20$ . Without calculating the product  $42 \times 14$ , which estimate do you think is closer? Why do you think that?

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