



SKILL 13: Estimating Products

To estimate products, round each factor so that the multiplication is easy.

Example 1

Estimate 398×18 .

$$398 \times 18$$

↓ ↓

$$400 \times 20 = 8,000$$

Round 398 to 400.

Round 18 to 20.

Multiply 400×20 .

An estimate of this product is 8,000.

Example 2

Estimate $5,173 \times 99$.

$$5,173 \times 99$$

↓ ↓

$$5,000 \times 100 = 500,000$$

Round 5,173 to 5,000.

Round 99 to 100.

Multiply $5,000 \times 100$.

An estimate of this product is 500,000.

Guided Practice

Estimate each product. Round each factor to make the computation easy.

1. 7×37

↓ ↓

$$7 \times 40 = \underline{\hspace{2cm}}$$

2. 123×95

↓ ↓

$$100 \times 100 = \underline{\hspace{2cm}}$$

3. 642×49

↓ ↓

$$600 \times 50 = \underline{\hspace{2cm}}$$

Estimate each product. Show what numbers you used.

4. 89×6

↓ ↓

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

5. 63×170

↓ ↓

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

6. 220×99

↓ ↓

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

7. 592×786

↓ ↓

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

8. 298×31

↓ ↓

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

9. 103×482

↓ ↓

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{2cm}}$$

SKILL 13: Practice

Estimate each product. Round to make the computation easy.

1. 9×34
 $\downarrow \quad \downarrow$

_____ \times _____ = _____

2. 53×8
 $\downarrow \quad \downarrow$

_____ \times _____ = _____

3. 81×995
 $\downarrow \quad \downarrow$

_____ \times _____ = _____

4. 742×51
 $\downarrow \quad \downarrow$

_____ \times _____ = _____

5. 49×61
 $\downarrow \quad \downarrow$

_____ \times _____ = _____

6. $6,319 \times 7$
 $\downarrow \quad \downarrow$

_____ \times _____ = _____

7. 98×21

8. 720×630

9. 449×42

10. 309×27

11. 199×99

12. 117×31

13. $211 \times 4,924$

14. 823×683

15. $7 \times 9,545,248$

Solve.

16. A swimming pool is 28 meters long. Millie swims 21 lengths in the pool. About how many meters does Millie swim?

17. Seth needs 23 bolts that are 29¢ each. Estimate the cost of the bolts.

18. Each baseball cap requires 72 inches of stitching. Estimate the inches of stitching needed for 48 caps.



19. Estimate the product: 639×28 .
Skill 13

- A 1,200 C 18,000
 B 12,000 D 21,000

20. Which of these numbers is the greatest?

Skill 3

- F 2,899 H 990
 G 3,001 J 1,998