

Estimating Products

NCTM Standards 1, 2, 4, 6, 7, 8, 9

Round and estimate.

1 98×42

Estimate:

$$\underline{100} \times \underline{\quad} = \underline{\quad}$$

2 35×81

Estimate:

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

3 67×48

Estimate:

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

4 56×112

Estimate:

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

Complete the number sentences.

5

$60 \times 3 = \underline{\quad}$

$60 \times 30 = \underline{\quad}$

$60 \times 300 = \underline{\quad}$

6

$20 \times 400 = \underline{\quad}$

$200 \times 400 = \underline{\quad}$

$200 \times 40 = \underline{\quad}$

7

$500 \times 60 = \underline{\quad}$

$50 \times 600 = \underline{\quad}$

$500 \times 600 = \underline{\quad}$

8

$19 \times 20 = \underline{\quad}$

$19 \times 200 = \underline{\quad}$

$190 \times 20 = \underline{\quad}$

$190 \times 200 = \underline{\quad}$

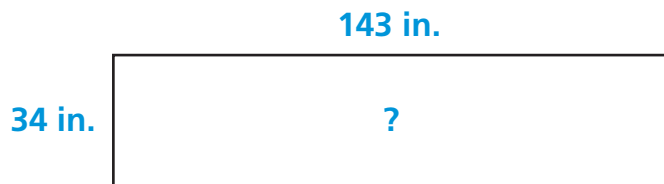
Figure out how many tickets were bought in a year if . . .

- 9 30 people each bought 40 tickets. _____ tickets
- 10 30 people each bought 400 tickets. _____ tickets
- 11 40 people each bought 300 tickets. _____ tickets



12 Solve the problem.

Kim and her mother want to plant a border garden of wildflowers in their backyard. Kim drew this sketch showing the garden's measurements.



In order to buy wildflower seeds, Kim and her mother need an estimate of the product 34×143 (the area of the garden). How can they estimate the product to be certain that they buy enough seeds? Explain your estimate.

Estimate: _____ \times _____ = _____ sq in.

13 Challenge Show how you could estimate the number of square feet in Kim's garden.

_____ \times _____ = _____ sq ft