LESSON MAKER PRO

Product Power Practice

Estimate and multiply two-digit numbers by one-digit numbers.

GRADE 4 · 4.CE.2.g.i

4.CE.2.g.i "Apply strategies (e.g., rounding, place value, properties of multiplication and/or addition) and algorithms, including the standard algorithm..."

NAME _____ DATE _____

ESTIMATE, THEN MULTIPLY

To estimate, round the two-digit factor to the nearest ten, then multiply. To find the exact product, multiply the ones and tens carefully, regrouping when needed.

WORKED EXAMPLE

Estimate and find 47 x 3.

1. Round 47 to 50. Estimate: 50 x 3 = 150.
2. Multiply the ones: 3 x 7 = 21. Write 1 and regroup 2 tens.
3. Multiply the tens: 3 x 4 tens = 12 tens. Add 2 tens to get 14 tens.
4. The exact product is 141.

Answer: Estimate: 150; exact product: 141

PRACTICE 6 problems

1 Round to the nearest ten to estimate, then find the exact product: 26 x 4

ANSWER _____

2 Round to the nearest ten to estimate, then find the exact product: 58 x 6

ANSWER _____

3 Round to the nearest ten to estimate, then find the exact product: 73 x 5

ANSWER _____

4 Round to the nearest ten to estimate, then find the exact product: 84 x 7

ANSWER _____

5 Round to the nearest ten to estimate, then find the exact product: 39 x 8

ANSWER _____

6 Round to the nearest ten to estimate, then find the exact product: 62 x 9

ANSWER _____

APPLY IT Show your work

1 The robotics club puts 45 stickers in each prize bag. They make 6 prize bags. Estimate, then find the exact number of stickers they use.

WORK SPACE

ANSWER _____

2 In a video game tournament, 27 players each earn 8 points for finishing a challenge. Estimate, then find the exact total number of points earned.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A school talent show has 96 seats in each of 4 sections. Estimate and find the exact number of seats. Explain how your estimate helps you check your exact answer.

WORK SPACE AND ANSWER

ANSWER KEY

Product Power Practice

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Round to the nearest ten to estimate, then find the exact product: 26 x 4	**Estimate: 120; exact product: 104**
2	Round to the nearest ten to estimate, then find the exact product: 58 x 6	**Estimate: 360; exact product: 348**
3	Round to the nearest ten to estimate, then find the exact product: 73 x 5	**Estimate: 350; exact product: 365**
4	Round to the nearest ten to estimate, then find the exact product: 84 x 7	**Estimate: 560; exact product: 588**
5	Round to the nearest ten to estimate, then find the exact product: 39 x 8	**Estimate: 320; exact product: 312**
6	Round to the nearest ten to estimate, then find the exact product: 62 x 9	**Estimate: 540; exact product: 558**

PART 2 · APPLY IT

1. **Estimate: 300 stickers; exact number: 270 stickers** Round 45 to 50, so 50 x 6 = 300. Multiply 45 x 6 to get 270.
2. **Estimate: 240 points; exact number: 216 points** Round 27 to 30, so 30 x 8 = 240. Multiply 27 x 8 to get 216.

CHALLENGE

Estimate: 400 seats; exact number: 384 seats. Round 96 to 100, and 100 x 4 = 400. Since 96 is less than 100, the exact answer should be less than 400.

Accept any correct multiplication method, including partial products or the standard algorithm. Estimates should use rounding the two-digit factor to the nearest ten as directed.