

Name _____

Multiply with Regrouping



COMMON CORE STANDARD—4.NBT.5
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Estimate. Then find the product.

1. Estimate: 2,700

$$\begin{array}{r} \overline{) 87} \\ \overline{) 32} \\ \overline{) 174} \\ + \overline{) 2,610} \\ \hline \overline{) 2,784} \end{array}$$

Think: 87 is close to 90 and 32 is close to 30.

$$90 \times 30 = 2,700$$

2. Estimate: _____

$$\begin{array}{r} 73 \\ \times 28 \\ \hline \end{array}$$

3. Estimate: _____

$$\begin{array}{r} 48 \\ \times 38 \\ \hline \end{array}$$

4. Estimate: _____

$$\begin{array}{r} 59 \\ \times 52 \\ \hline \end{array}$$

5. Estimate: _____

$$\begin{array}{r} 84 \\ \times 40 \\ \hline \end{array}$$

6. Estimate: _____

$$\begin{array}{r} 83 \\ \times 77 \\ \hline \end{array}$$

7. Estimate: _____

$$\begin{array}{r} 91 \\ \times 19 \\ \hline \end{array}$$

Problem Solving



8. Baseballs come in cartons of 84 baseballs. A team orders 18 cartons of baseballs. How many baseballs does the team order?

9. There are 16 tables in the school lunch room. Each table can seat 22 students. How many students can be seated at lunch at one time?

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Choose a Multiplication Method**COMMON CORE STANDARD—4.NBT.5**
Use place value understanding and properties of operations to perform multi-digit arithmetic.**Estimate. Then choose a method to find the product.**

1. Estimate: **1,200** 2. Estimate: _____ 3. Estimate: _____ 4. Estimate: _____

$$\begin{array}{r} 31 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ \times 85 \\ \hline \end{array}$$

$$\begin{array}{r} 68 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ \times 17 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ + 1,240 \\ \hline 1,333 \end{array}$$

5. Estimate: _____ 6. Estimate: _____ 7. Estimate: _____

$$\begin{array}{r} 49 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 91 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ \times 19 \\ \hline \end{array}$$

8. Estimate: _____ 9. Estimate: _____ 10. Estimate: _____ 11. Estimate: _____

$$\begin{array}{r} 46 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 41 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 69 \\ \hline \end{array}$$

Problem Solving

12. A movie theatre has 26 rows of seats. There are 18 seats in each row. How many seats are there?
13. Each class at Briarwood Elementary collected at least 54 cans of food during the food drive. If there are 29 classes in the school, what was the least number of cans collected?

Name _____

Problem Solving • Multiply 2-Digit Numbers



COMMON CORE STANDARD—4.OA.3

Use the four operations with whole numbers to solve problems.

Solve each problem. Use a bar model to help.

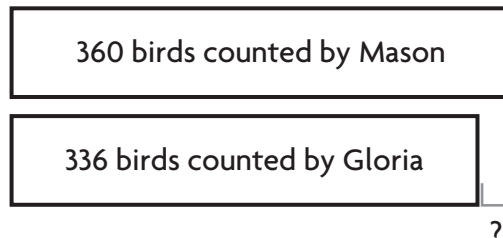
- Mason counted an average of 18 birds at his bird feeder each day for 20 days. Gloria counted an average of 21 birds at her bird feeder each day for 16 days. How many more birds did Mason count at his feeder than Gloria counted at hers?

Birds counted by Mason: $18 \times 20 = 360$

Birds counted by Gloria: $21 \times 16 = 336$

Draw a bar model to compare.

Subtract. $360 - 336 = 24$



So, Mason counted 24 more birds.

- The 24 students in Ms. Lee’s class each collected an average of 18 cans for recycling. The 21 students in Mr. Galvez’s class each collected an average of 25 cans for recycling. How many more cans were collected by Mr. Galvez’s class than Ms. Lee’s class?

- At East School, each of the 45 classrooms has an average of 22 students. At West School, each of the 42 classrooms has an average of 23 students. How many more students are at East School than at West School?

- A zoo gift shop orders 18 boxes of 75 key rings each and 15 boxes of 80 refrigerator magnets each. How many more key rings than refrigerator magnets does the gift shop order?
