## Another Look!

You can use arrays, area models, or place-value blocks to help find the product of $20 \times 14$.
$20 \times 14$ means 20 groups of 14 , or
(20 groups of 10) $+(20$ groups of 4$)$.
Add the partial products from the model.

20 groups of $10=200$
20 groups of $4=80$
$200+80=280$
So, $20 \times 14=280$.


## Additional

Practice 4-2
Use Models to Multiply 2-Digit Numbers by
Multiples of 10

For 1-2, use the array to find each product.

1. $10 \times 12$


10 groups of $10=$
10 groups of $2=$ $\qquad$ $+$ $\qquad$ $=$

So, $10 \times 12=$ $\qquad$ .
2. $20 \times 18$


20 groups of $10=$ $\qquad$
20 groups of $8=$ $\qquad$
$+\ldots=$

So, $20 \times 18=$ $\qquad$ .

For 3-6, find each product. Draw an array or an area model to help.
3. $50 \times 15$
4. $40 \times 22$
5. $30 \times 39$
6. $60 \times 21$
7. The height of each story of an apartment building is measured from the bottom of one floor to the bottom of the next floor. Each story has a height of 18 feet. How tall is the building?

8. Make Sense and Persevere Marta exercises 30 minutes each day. Greg exercises 40 minutes each day. How many more minutes does Greg exercise than Marta in a month that has 31 days?
9. A dentist orders 15 boxes of floss and 20 boxes of toothbrushes each month. Floss is sold 70 to a box and toothbrushes are sold 50 to a box. How many items does the dentist order each month?
10. Mrs. Harrigan ordered 30 boxes of glasses for her restaurant. Each box holds 16 glasses. She also ordered 30 boxes of plates. There are 25 plates in each box. How many glasses and plates did Mrs. Harrigan order altogether?
11. Higher Order Thinking Without multiplying, is the product of $45 \times 10$ or $50 \times 10$ greater? Explain.

## Assessment Practice

12. Miranda says $30 \times 26$ is greater than $20 \times 36$. Is she correct? Draw a model to explain if Miranda is correct.

