## Another Look!

A nature preserve has two hiking trails. Trail 1 is 1.3 miles long. Trail 2 is twice as long as Trail 1.

How long is Trail 2?

Additional
Practice 4-3
Use Models to Multiply a Decimal and a Whole Number

Use place-value blocks to find the product.

Show 2 groups of 1.3.


Combine the blocks.


So, $1.3 \times 2=2.6$. Trail 2 is 2.6 miles long.

In 1 and 2, find the product. Use place-value blocks for help.
2. $0.08 \times 6=0.48$

In 3-10, find the product. Use models to help, if needed.
3. $12 \times 0.08$
0.96
4. $1.75 \times 4$
7
5. $0.85 \times 3$
6. $6 \times 0.12$
2.55
0.72
7. $3 \times 0.33$
0.99
8. $0.45 \times 10^{2}$
9. $3 \times 2.89$
10. $7.6 \times 2$
8.67
15.2
11. Ryan measures the perimeter of his square painting so he can make a wood frame. Find the perimeter of the painting in centimeters. Remember, the formula for perimeter is $P=4 \times$ s. 122 centimeters

13. Anthony bikes a 16.2 -mile long trail. If he bikes it 4 times, how far will he have traveled? Draw a bar diagram to help you.
64.8 miles

| Total miles |  |  |  |
| :--- | :--- | :--- | :--- |
| 16.2 | 16.2 | 16.2 | 16.2 |

12. Reasoning Write a multiplication number sentence that matches the model.

$5 \times 0.18=0.9$

13. enVision ${ }^{\otimes}$ STEM If 7 giant solar power plants generate 1.3 gigawatts (GW) of energy to power 900,000 homes, how many gigawatts can 21 giant solar plants generate?

## 3.9 gigawatts

15. Higher Order Thinking If $0.36 \times 4=1.44$, how would your product be different if the factors were 0.36 and 0.4 ? There would be 3 decimal places rather than 2 . The product would be 0.144 .

## Assessment Practice

16. Doug's family buys 7 postcards while on vacation. Each postcard costs $\$ 0.25$ including tax.

## Part A

How can Doug use place-value blocks to find the total cost of the postcards? What is the total cost?
> \$1.75; Sample answer: Doug can use 7 groups of 2 longs and 5 small squares. He can regroup the blocks to get 1 flat, 7 longs, and 5 small squares, which represents $\$ 1.75$.

## Part B

How can Doug use what he knows about whole-number multiplication to check his answer?

## Sample answer:

$7 \times 25=175$, so $7 \times 2.5=17.5$, and $7 \times 0.25=1.75$.

