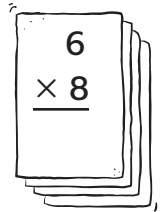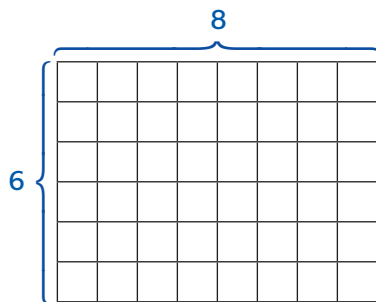## MY Homework

Lesson 4

Multiply by 8

Homework Helper

eHelp

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**Each ladybug has 6 legs. Elaine counted 8 ladybugs.
How many legs is that altogether?**

Find 6 × 8.

$$\begin{array}{r} 6 \\ \times\ 8 \end{array}$$

One Way Draw an array.

8

6

Another Way Double a known fact.

Decompose the number 8 into equal
addends of 4 + 4.

6 × 8 = 6 × 4 + 6 × 4

24 + 24 = 48

6 × 8 = 48. So, 8 ladybugs have 48 legs altogether.

Practice

Double a known fact to find each product.

1. 5 × 8 = **40**

5 × **4** = **20**

5 × **4** = **20**

20 + **20** = **40**

2. 4 × 8 = **32**

4 × **4** = **16**

4 × **4** = **16**

16 + **16** = **32**

Algebra **Find each unknown. Use the Commutative Property.**

3. $8 \times \blacksquare = 40$
$\blacksquare \times 8 = 40$

The unknown is ___**5**___.

4. $\blacksquare \times 8 = 56$
$8 \times \blacksquare = 56$

The unknown is ___**7**___.

5. $2 \times 8 = \blacksquare$
$8 \times 2 = \blacksquare$

The unknown is ___**16**___.

6. $8 \times \blacksquare = 64$
$\blacksquare \times 8 = 64$

The unknown is ___**8**___.

Multiply.

7. $\begin{array}{r} 1 \\ \times\, 8 \\ \hline \mathbf{8} \end{array}$

8. $\begin{array}{r} 8 \\ \times\, 9 \\ \hline \mathbf{72} \end{array}$

9. $\begin{array}{r} 8 \\ \times\, 0 \\ \hline \mathbf{0} \end{array}$

10. $\begin{array}{r} 3 \\ \times\, 8 \\ \hline \mathbf{24} \end{array}$

Problem Solving

Mathematical PRACTICE 2 **Use Symbols** **Write a multiplication sentence with a symbol for the unknown. Then solve.**

11. There were 5 dolphins swimming around a tour boat. Each dolphin circled the boat 8 times. What is the total number of times all of the dolphins circled the boat?

$5 \times 8 = \blacksquare$; **40 times**

12. Cameron worked 8 hours at the coffee shop. He earned the same amount in tips each hour. At the end of his shift, Cameron had $32 in tips. How much money did he earn in tips each hour?

$8 \times \blacksquare = \$32$; **$4**

Test Practice

13. Stuart knows spiders have 8 legs. Which shows a known fact Stuart can double to find the number of legs on 7 spiders?

Ⓐ $4 \times 3 = 12$

Ⓒ $4 \times 8 = 32$

Ⓑ $4 \times 7 = 28$

Ⓓ $7 \times 8 = 56$

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