

Name _____

MY Homework

Lesson 8

Multiply by 11 and 12

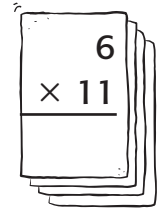
Homework Helper



Need help? connectED.mcgraw-hill.com

Felisa can put 6 photos on each page of her scrapbook.
How many photos can she place altogether on 11 pages?

Find 6×11 . Write multiplication vertically or horizontally.



One Way Use repeated addition.

$$6 \times 11 =$$

$$11 + 11 + 11 + 11 + 11 + 11 = 66$$

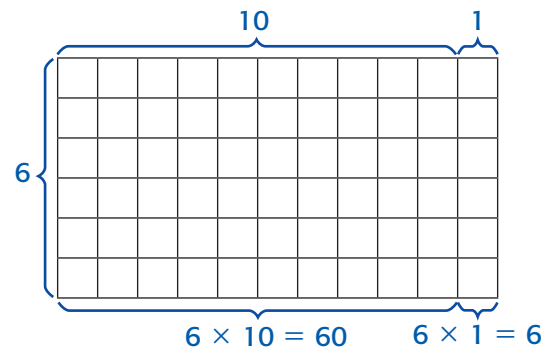
Another Way Decompose 11 into $10 + 1$.

Decompose 11 into the addends $10 + 1$.

1 Multiply each part.
 $6 \times 10 = 60$

$$6 \times 1 = 6$$

2 Add.
 $60 + 6 = 66$



So, $6 \times 11 = 66$.

Felisa can place 66 photos on 11 pages in her scrapbook.

Practice

Write an addition sentence and a multiplication sentence for each.

1. 5 rows of 11 counters $\underline{11} + \underline{11} + \underline{11} + \underline{11} + \underline{11} = \underline{55}$

$$\underline{5} \times \underline{11} = \underline{55}$$

2. 3 rows of 12 counters $\underline{12} + \underline{12} + \underline{12} = \underline{36}$

$$\underline{3} \times \underline{12} = \underline{36}$$

Use repeated addition to find each product.

3. $3 \times 11 = \underline{33}$

4. $8 \times 12 = \underline{96}$

Decompose one factor to find each product.

5. $5 \times 12 = \underline{60}$

6. $7 \times 11 = \underline{77}$



Problem Solving

7. How many eggs are there altogether in 7 dozen eggs? (*Hint: 1 dozen = 12*)


84 eggs

8. How many months are in 6 years?

72 months

9. A certain butterfly has 9 spots. How many spots would 11 of these butterflies have?

99 spots

10. **Mathematical PRACTICE**  **Keep Trying** Luke can run a mile in 7 minutes. Colleen can run a mile in 5 minutes. At this rate, how much longer would it take Luke to run 11 miles than it would take Colleen to run 11 miles?

22 minutes

My Work!

Test Practice

11. Which number sentence does *not* belong with the other three?

(A) $4 \times 12 = 48$

(C) $4 + 12 = 16$

(B) $12 \times 4 = 48$

(D) $12 + 12 + 12 + 12 = 48$