

Name _____

MY Homework

Lesson 7

Factors and Multiples

Homework Helper



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Find the factors of 16.

Think of factors that result in a product of 16.

$$1 \times 16 = 16$$

$$2 \times 8 = 16$$

$$4 \times 4 = 16$$

So, the factors of 16 are 1, 2, 4, 8, and 16.

Identify the first five multiples of 4.

First multiple: $0 \times 4 = 0$

Second multiple: $1 \times 4 = 4$

Third multiple: $2 \times 4 = 8$

Fourth multiple: $3 \times 4 = 12$

Fifth multiple: $4 \times 4 = 16$

So, the first five multiples of 4 are 0, 4, 8, 12, and 16.

Practice

Find the factors of each number.

1. 14

2. 20

Identify the first five multiples for each number.

3. 2

4. 3

5. 6

6. 5


7. 8

8. 7



Problem Solving

9. Each music class sings 8 songs a week. How many songs does each class sing in 5 weeks? 6 weeks? 7 weeks?

10. **Mathematical PRACTICE**  **Use Math Tools** Tyra wants to arrange 32 tiles in equal rows and columns. How many ways could she organize the tiles? List the factors.



Brain Builders

11. Members of the marching band line up in 6 rows of 8. How many total members are there? Identify all the other ways they could line up in equal rows and columns.

Vocabulary Check



Complete each sentence with the correct vocabulary term.

decompose multiple

12. The number 12 is a _____ of 2, 3, and 4.
13. One way to _____ 24 is to show it as 2×12 .
14. **Test Practice** Which set of numbers correctly shows all of the factors of 28?
- (A) 1, 2, 4, 7, 14, 28 (C) 1, 2, 7, 14, 28
- (B) 0, 1, 7, 14, 28 (D) 1, 2, 4, 7, 8, 14, 28