Name_____ Date_____ Period_____

LESSON 6-7 · SESSION 1 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Find All Factor Pairs

Builds on Grade 4 · 4.OA.B.4

TODAY'S LESSON	You will list every factor pair of 45 and find the GCF of pairs like 16 and 24.
YOU NEED TO	List all the factor pairs of a number, like 40. **You will use it in Practice Form A, problems 1 and 2.**

STEPS TO FOLLOW

use these same steps on every problem

1. Start with **1** × the number.
2. Test the **next** number. If it divides evenly, write the pair.
3. **Stop** when the next number is already in a pair.

WATCH ME

the steps in action

List all the factor pairs of 40.

Step 1 1 × 40

Step 2 2 × 20. 3: no. 4 × 10. 5 × 8. 6: no. 7: no.

Step 3 Next is 8. It is already in 5 × 8. Stop.

Answer **1 × 40, 2 × 20, 4 × 10, 5 × 8**

TRY IT WITH HELP

fill in each step

1. List all the factor pairs of 18.

Step 1 1 × _____

Step 2 2 × _____. 3 × _____.

Step 3 4 and 5: no. Next is _____. It is in a pair. Stop.

2. List all the factor pairs of 24.

Step 1 1 × _____

Step 2 2 × _____. 3 × _____. 4 × _____.

Step 3 5: no. Next is _____. It is in a pair. Stop.

YOUR TURN

use the steps on your own

3. List all the factor pairs of each number.

a. 12: _____

b. 20: _____

c. 28: _____

d. 36: _____

Identify Prime and Composite Numbers

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TODAY'S LESSON	You will build a factor tree for 42. Each branch stops at a prime number.
YOU NEED TO	Tell whether a number like 21 is prime or composite. **You will use it in Practice Form A, problem 3.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Test** 2, 3, 5, and 7 in order.
2. Write the first **factor pair** you find, or write none.
3. A pair means **composite**. None means **prime**.

WATCH ME

the steps in action

Is 51 prime or composite?

Step 1 2: no. 3: 5 + 1 = 6, so yes.

Step 2 51 = 3 × 17.

Step 3 There is a pair, so 51 is composite.

Answer **Composite**

TRY IT WITH HELP

fill in each step

4. Is 21 prime or composite?

Step 1 The first number that works is _____.

Step 2 21 = _____ × _____

Step 3 21 is _____.

5. Is 23 prime or composite?

Step 1 Do 2, 3, 5, or 7 work? _____

Step 2 Factor pair: _____

Step 3 23 is _____.

YOUR TURN

use the steps on your own

6. Write P for prime or C for composite.

a. 15 _____ **b.** 13 _____ **c.** 27 _____

d. 31 _____ **e.** 49 _____ **f.** 41 _____

READY CHECK

a problem like the one in today's lesson

7. Which shows the prime factorization of 42?

A 2 × 21 **B** 6 × 7 **C** 2 × 3 × 7 **D** 1 × 42

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____