Find Factors and Multiples

Find the greatest common factor to split things into equal groups with none left over.

Name _____ **Date** _____

Tonight's spark

A school store has 48 pencils and 36 notebooks. The manager wants identical combo packs with nothing left over. What is the most packs she can make?

Make a guess first: can she make more or fewer than 10 packs?

Pencils	Notebooks
48	36
24	18
12	9
4	3

÷ 12

Our class model: list factors, find the greatest shared one

Try it

Work it out on paper. Write one answer on each line.

1 **Which number is a factor of 18?**

A. 4 **B.** 6 **C.** 36 **D.** 0

My answer _____

2 **Which number is a multiple of 7?**

A. 17 **B.** 27 **C.** 71 **D.** 42

My answer _____

3 **What is the GCF of 12 and 18?**

A. 6 **B.** 3 **C.** 36 **D.** 2

My answer _____

4 **What is the LCM of 4 and 10?**

A. 2 **B.** 40 **C.** 20 **D.** 14

My answer _____

5 **A teacher has 24 pencils and 36 erasers. She makes identical kits with nothing left over. What is the greatest number of kits?**

A. 6 **B.** 12 **C.** 72

My answer _____

Talk about it

Which shared factor gives the most packs?

Home mission

Grab two small piles, like 12 coins and 18 buttons. Ask your student: what is the most identical piles you can make with nothing left over? How many of each go in a pile?

If we get stuck, ask

- Is something being split up, or repeating?
- What divides both numbers evenly?
- What is the first number both lists share?

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/6-7/homework.html

How did it feel? (optional)

Tricky Getting there Got it