

Grade 4 - Factors, Multiples, Prime and Composite - Worksheet

Common Core 4.OA.B.4 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This worksheet has 20 problems on factors, multiples, prime numbers and composite numbers. Problems ask for factor pairs, lists of multiples, and sorting numbers up to 100 (Common Core 4.OA.B.4).

Grade 4 · Common Core State Standards: **4.OA.B.4**

Exercise 1 - Factor pairs of 12

Write all the factor pairs of 12.

Exercise 2 - Factors of 18

List all the factors of 18 from least to greatest.

Exercise 3 - Multiples of 7

Write the first six multiples of 7.

Exercise 4 - Reading an array

Maya arranged square tiles in the array below.



5 rows of 6

An array of tiles.

Write a multiplication equation for the array. Then list all the factor pairs of the number of tiles.

Exercise 5 - Is it a factor?

Is 6 a factor of 54? Explain how you know.

Exercise 6 - Is it a multiple?

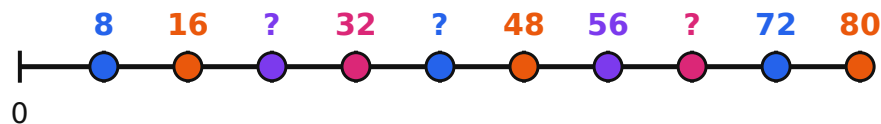
Decide whether each number is a multiple of 8: (a) 56 (b) 58.

Exercise 7 - Multiples of 4 in a list

Find all the multiples of 4 in this list: 14, 20, 26, 32, 38, 44.

Exercise 8 - Missing multiples

The dots on the number line show multiples of 8. Write the three missing numbers.



Multiples of 8 on a number line.

Exercise 9 - Prime or composite

Tell whether each number is prime or composite: 7, 9, 11, 15.

Exercise 10 - Primes from 20 to 40

List all the prime numbers between 20 and 40.

Exercise 11 - The even prime

Explain why 2 is the only even prime number.

Exercise 12 - Divisibility by last digit

Without dividing, tell whether 3,465 is divisible by (a) 2 (b) 5 (c) 10.

Exercise 13 - Factor pairs of 36

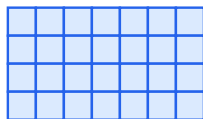
Find all the factor pairs of 36. How many factors does 36 have?

Exercise 14 - Factors of 48

List every factor of 48 and tell how many there are.

Exercise 15 - Sticker poster

Maya has 28 stickers. She wants equal rows with no stickers left over. The picture shows one way. List every possible row length (number of stickers in a row).

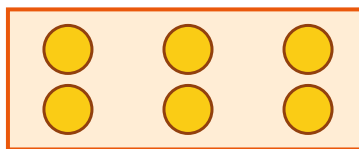


4 rows of 7

One way: 4 rows of 7 stickers.

Exercise 16 - Muffin boxes

A bakery packs muffins in boxes of 6 with none left over.



One box holds 6 muffins.

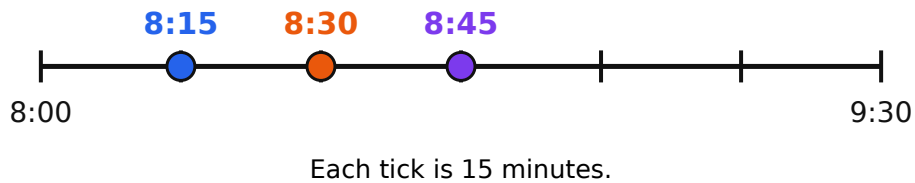
Which of these totals can be packed exactly: 42, 50, 54, 62?

Exercise 17 - Team sizes

Coach Rivera has 30 players and wants equal teams. Each team needs at least 2 players and at most 10 players. List the possible team sizes.

Exercise 18 - Bus schedule

A school bus leaves the stop every 15 minutes, starting at 8:15 AM. The number line shows the first three buses after 8:00. List the next three departure times. Does a bus leave at 9:30 AM?



Exercise 19 - Mystery prime

Find the number. It is a prime number between 40 and 50, and the sum of its digits is 11.

Exercise 20 - Ethan's claim

Ethan says 51 is prime because it is odd and is not in the 2, 5 or 10 times tables. Is Ethan right? Show your reasoning with factor pairs.