FACTORS
ÀWỌN ÌFIPÍN
ÌṢIRÒ
MATHEMATICS

Level of readership	Primary, Secondary, advanced

by Fakinlede K

FACTORS	ÌFIPÍN
COMMON FACTORS	ÌFIPÍN ÀJỌNÍ
HIGHEST COMMON FACTOR (HCF)	ÌFIPÍN NLA ÀJỌNÍ (FNA)

GREATEST (HIGHEST) COMMON FACTOR:	ÌFIPÍN NLA ÀJỌNÍ:
The **largest whole number** that divides evenly into each of a set of numbers. To find the GCF of 2 numbers: 36 and 54 The factors of 36: 1,2,3,4,6,9,18,36 The factors of 54: 1,2,3,6,9,18,27,54 The GCF of 36 and 54 is 18	Òòkà tó tóbi jù tó jẹ́ ìfipín àwọn ìjọ òòkà kan. Bí a bá fẹ wá **Ìfipín-nlá àjọni** àwọn òòkà: 36 àti 54 Àwọn ìfipín 36: 1,2,3,4,6,9,18,36 Àwọn ìfipín 54: 1,2,3,6,9,18,27,54 Ìfipín nlá àjọni 36 ati 54 jẹ́ 18

ÀLÀYÉ / EXPLANATION

$12 \div 2 = 6$	$12 = 2 \times 6$
$12 \div 6 = 2$	$12 = 6 \times 2$
2 and 6 are factors of 12	**2 àti 6 jẹ́ ìfipín 12**

A factor divides a number without a remainder	Ìfipín òòkà má npín òòkà làì ní ìṣẹkù
2 is not a factor of 11 because $11 \div 2$ leaves a remainder 1	2 kìí ṣe ìfipín 11 nitori $11 \div 2$ ni ìṣẹkù 1

ÀṢEWÒ 1/ EXERCISE 1

Find all the factors	Wá gbogbo àwọn ìfipín

1. 12 | 1,2,3,4,6 | **2.** 16 | | **3.** 24 |

4. 32 | | **5.** 40 | | **6.** 45 |

7. 19 | | **8.** 29 | | **9.** 41 |

ÀṢEWÒ 2 / EXERCISE 2

Is the first number a factor of the other two numbers? Give a reason for your answer	Njẹ òòkà kiní nṣe ìfipín àwọn òòkà méji to tẹlé e. Sọ ìdì èsì rẹ

1. 2: 4,8 |
Yes: 2 divides 4 and 8 without a remainder

Bẹẹni: 2 pín 4 àti 8 láî sí ìṣẹkù
| **2.** 6: 12, 18 |

3. 7: 56, 49 | | **4.** 9: 63,80 |

5. 7: 41,35

6. 9: 72,81

7. 3: 16,21

8. 4: 32,28

ÀPẸRẸ / EXAMPLE

Find the common factors of 24 and 36	Wá àwọn ìfipín ajọni 24 àti 36

Factors of 24/àwọn ìfipín 24:				Factors of 36/àwọn ìfipín 36:			
24	=	1	x 24	36	=	1	x 36
		2	x 12			2	x 18
		3	x 8			3	x 12
		4	x 6			4	x 9
		6	x 4			6	x 6
		8	x 3			9	x 4
		12	x 2			12	x 3
		24	x 1			18	x 2
						36	x 1

The common factors of 24 and 36 are (in red)	Àwọn ìfipín àjọní 24 àti 36 jé (ní pupa):	1, 2, 3, 4, 6, 12
The highest of these common factors is:	Ìfipín tó tóbi jù lọ nínú àwọn Ìfipín yi ní:	12
Therefore the Highest Common Factor (HCF) of 24 and 36 is:	Nítorína ìfipín nlá àjọní ti 24 àti 36 ni:	12

ÀṢEWÒ 2/ EXERCISE 2

Find the Highest Common Factor of:	Wá ìfipín nlá àjọni ti:

1. 15 and 21

15: 1, 3, 5, 15
21: 1, 3, 7, 21

HCF is 3/ INA jẹ́ 3

2. 25 and 30

3. 16 and 28

4. 21 and 28

5. 40,24,12

6. 12,15,20