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Multiples and Factors

Student Worksheet

Questions & Working Space

IGCSE Mathematics

Name: _____

Date: _____

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Contents

1 Part I — Topic-by-Topic Exercises **2**
1.1 Factors . . . 2
1.2 Multiples . . . 4
1.3 Prime and Composite Numbers . . . 6
1.4 Prime Factorization . . . 8
1.5 Highest Common Factor (HCF) . . . 10
1.6 Lowest Common Multiple (LCM) . . . 13
1.7 Real-World Applications . . . 15

2 Part II — Mixed Review **17**

3 Part III — Examination-Style Practice **21**

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Note

How to use this worksheet. These questions are built *strictly* on the *Multiples and Factors* notes: factors and multiples, testing primes, prime factorization in index form, HCF and LCM (listing and prime-factorization methods), the relationship HCF $\times$ LCM $= a \times b$, and HCF/LCM word problems.
Working space. Ruled lines are provided after each question — show *all* of your working there, and always write prime factorizations in index form. Harder questions have a teal **Hint** box; try the question first and use the hint only if you are stuck.
Checking your answers. Full step-by-step solutions, a marking scheme for the exam paper, and a quick answer key are in the separate booklet *"Multiples and Factors — Solutions & Answer Key."* Try each question honestly before you look.

1 Part I — Topic-by-Topic Exercises

1.1 Factors

Exercise F1 *[Basic]*

List **all** the factors of 40.

Exercise F2 *[Basic]*

Find all the factors of 66.

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Exercise F3 *[Standard]*

Find all the factors of 48, using the pairing method (record both the divisor and the quotient each time).

Exercise F4 *[Standard]*

Find all the factors of 90. How many factors are there, and what does this tell you about whether 90 is a perfect square?

Exercise F5 *[Intermediate]*

A student writes: *"The factors of* 32 *are* 2, 4, 8, 16*."*
Identify the error, and write the complete, correct list of factors.

Hint

Every number has two factors that students most often forget. Also, look for a factor pair that multiplies to 32 but is not in the student's list.

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Preview ends here

21 more pages are in the full pack.

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