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Fraction Equivalence and Operations

Student Worksheet

Questions & Working Space

IGCSE Mathematics

Name: _____

Date: _____

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Note

How to use this worksheet. These questions are built *strictly* on the *Fraction Equivalence and Operations* notes: fraction terminology and types, improper fractions and mixed numbers, equivalent fractions and simplifying, comparing and ordering, the four operations, order of operations (BIDMAS), fraction–decimal conversion, and real-world fraction problems.
Working space. Ruled lines are provided after each question — show *all* of your working there. Convert mixed numbers to improper fractions before calculating, cross-cancel wherever you can, and always give your final answer in its simplest 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 *"Fraction Equivalence and Operations — Solutions & Answer Key."* Try each question honestly before you look.

1 Part I — Topic-by-Topic Exercises

1.1 Understanding Fractions

Exercise U1 *[Basic]*

Look at the fraction $\frac{7}{12}$. Write down:

(a) the numerator,

(b) the denominator,

(c) what type of fraction it is.

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Exercise U2 *[Basic]*

Classify each of the following as a *proper fraction*, an *improper fraction* or a *mixed number*.

(a) $\frac{5}{9}$

(b) $\frac{11}{4}$

(c) $2\frac{3}{7}$

(d) $\frac{8}{8}$

Exercise U3 *[Standard]*

Convert each improper fraction to a mixed number.

(a) $\frac{29}{6}$

(b) $\frac{47}{8}$

Exercise U4 *[Standard]*

Convert each mixed number to an improper fraction.

(a) $3\frac{4}{9}$

(b) $6\frac{2}{7}$

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Preview ends here

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