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Centre Number

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Student Number

2025 TESTIFI EXAMINATION

Simplifying Fractions

**General
Instructions**

- Reading time – 5 minutes
- Working time – 20 minutes
- Write using black pen
- Calculators approved by NESA may be used
- A reference sheet is provided at the back of this paper
- For questions in Section II, show relevant mathematical reasoning and/or calculations
- Write your Centre Number and Student Number at the top of this page

**Total marks:
12****Section I – 2 marks**

- Attempt Questions 1–2

Section II – 10 marks

- Attempt Questions 3–6

Section I

2 marks

Attempt Questions 1–2

Allow about 15 minutes for this section

Use the multiple-choice answer sheet for Questions 1–2.

- 1** A construction project requires 336 metres of steel cable, but only 504 metres are available in the warehouse. What fraction of the available cable will be used? Write your answer as a simplified fraction.
- A. $\frac{4}{6}$
- B. $\frac{336}{504}$
- C. $\frac{1}{2}$
- D. $\frac{2}{3}$
-
- 2** In a school election, 240 students voted for candidate A out of 360 total voters. What fraction of the students voted for candidate A? Write your answer as a simplified fraction.
- A. $\frac{2}{3}$
- B. $\frac{240}{360}$
- C. $\frac{4}{6}$
- D. $\frac{1}{2}$

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Centre Number

Simplifying Fractions

Section II Answer Booklet

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Student Number

10 marks

Attempt Questions 3–6

Instructions

- Write your Centre Number and Student Number at the top of this page.
 - Answer the questions in the spaces provided. These spaces provide guidance for the expected length of response.
 - Your responses should include relevant mathematical reasoning and/or calculations.
 - Extra writing space is provided at the back of this booklet. If you use this space, clearly indicate which question you are answering.
-

Please turn over

Question 3 (1 marks)

1

Simplify the fraction $\frac{18}{24}$ to its simplest form.

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Question 4 (2 marks)

2

Express the fraction $\frac{84}{126}$ in its simplest form.

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Question 5 (3 marks)

3

Express the fraction $\frac{132}{180}$ in its simplest form.

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Question 6 (4 marks)

4

A construction project requires $\frac{168}{252}$ of the total materials to be concrete. What fraction of the materials is concrete? Write your answer as a simplified fraction.

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End of paper