FIRM FOUNDATION COUNTRY SCHOOL

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CANDIDATE NAME

CANDIDATE CLASS

MATHEMATICS
Core

0580

HOLIDAY WORK 2026

You must answer on the question paper.

INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen. You may use an HB pencil for any diagrams or graphs.
- Write your name and candidate class in the boxes at the top of the page.
- Write your work in your exercise book.
- Do **not** use an erasable pen or correction fluid.
- You should use a calculator where appropriate.
- You must show all necessary working clearly.
- Give non-exact numerical answers correct to 3 significant figures, or 1 decimal place for angles in degrees, unless a different level of accuracy is specified in the question.
- For decimal answers, write down all figures on your calculator display before writing down the final answer to the specified degree of accuracy.
- Print out the notes below and write then in your note book.
- The work to be submitted on the opening day.

INFORMATION

- The total mark for this paper is 25 marks
- The number of marks for each question or part question is shown in brackets [ ].

This question paper consists of 4 pages.

1. Simplify

   a) $(3x + 4y) + (5x – 2y)$ [2]

   b) $(7a - 3b) – (2a + 5b)$ [2]

   c) $\frac{12x^4}{4x}$ [2]

   d) $(2x – 4)(x + 7)$ [2]

2. Write 0.00056 in standard form [1]

   Calculate, giving your answers in standard form,

   i. $(3.1 \times 10^4) \times (2 \times 10^3)$ [2]

   ii. $(6 \times 10^7) \div (2 \times 10^3)$ [2]

3. Mona and Peter share a pizza in the ratio 2: 3. They eat it all.

   a) What fraction of pizza did Mona eat? [2]

   b) What fraction pizza did Peter eat? [2]

4. Simplify

   a) $64^{1/3}$ [1]

   b) $(16^{1/2})^2$ [2]

   c) $5x^{-2}$ [1]

5. In a football league a team is given 3 points for a win, 1 point for a draw and 0 points for a loss.

   The table below shows 20 results for Athletic Cambridge .

points	3	1	0
frequency	10	3	7

   a) Find the median [2]

   b) Find the mode [2]

EQUATIONS

- An equation is mathematical statement that shows two expressions are equal, always containing an equal sing.
- For example $3x$+ 5 =15 means the left hand side(LHS) is equal to the right hand side (RHS)

LINEAR EQUATION

- It is an equation where the highest power of the variable is 1.
- General form

  ax+ b = c

  ax+by = c (two variables)

- **EXAMPLE**

1. $2x$+ 3 = 5
2. $3x$ – 4 = 11

HOW TO SOLVE LINEAR EQUATIONS

Steps to follow

1. Isolate the variables
   - Add or subtract move constant
   - Multiply or divide to adjust coefficients
2. Balance both sides: whatever you do to one side, do to the other.
3. Simplify step by step.

Example

1. Solve

   a) 3x + 4 = 10

   Subtract 4 on both sides

   3x +4 - 4 = 10 - 4

3x = 6 (divide both sides by 3)

Therefore x = 2

2. 3x – 5 = 16 (add 5 on both sides)

3x - 5 + 5 = 16+ 5

3x = 21 (divide both sides by the coefficient of x which is 3)

X = 7.