GRADE 12 MATHEMATICAL LITERACY

IGNITE EXAM PREP
PAPER 1
Finance • Data Handling • Probability

YOUR EXAM GAME PLAN Read the question carefully → choose the method → show your working → check your answer in context.

01 FINANCE

Percentages & VAT

Percentage amount = original amount × rate ÷ 100

Including 15% VAT: **price × 1,15**
Excluding 15% VAT: **VAT-inclusive price ÷ 1,15**

Compare financial options

Compare the **full cost over the same period**. Include deposits, instalments, fees and VAT where stated.

Inflation

New price = old price × (1 + rate ÷ 100)

Worked example

Equipment costs R2 400 excluding VAT.
VAT = R2 400 × 0,15 = R360
Total = R2 760

02 DATA HANDLING

Before you calculate

- Check the title, labels, units and source.
- Arrange raw data from smallest to largest.
- Read the correct category, year and scale on a graph.

Key measures

Range = highest – lowest

IQR = Q3 – Q1

Percentage = part ÷ whole × 100

Worked example

Data: 80, 90, 100, 110, 120, 150, 170
Median = **110**
Q1 = 90; Q3 = 150
IQR = 150 – 90 = **60**

03 PROBABILITY

Use the basic rule

P(event) = favourable outcomes ÷ total equally likely outcomes

Probability can be written as a fraction, decimal or percentage. It must be between **0 and 1** (or 0% and 100%).

Worked example

A box has 3 blue pens out of 10 pens in total.
P(blue) = 3/10 = 0,3 = **30%**

Check the wording

Does the question ask for a fraction, decimal or percentage? Give the answer in the requested form and simplify fractions where possible.

FINAL EXAM CHECKLIST

✓ Answer the command word: calculate, determine, compare, describe or verify.	✓ Show calculations clearly when working is required.
✓ Include the correct units and round as instructed.	✓ For “verify”, calculate and then state whether the claim is valid.
✓ Check that the answer makes sense in the real-life situation.	✓ For tables and graphs, check the category, year and scale.

REMEMBER: A correct answer needs the right method, clear working and a sensible interpretation.