

ELGIN ACADEMY

Prelim Examination 2008 / 2009

MATHEMATICS Standard Grade - Credit Level

Paper I

Time allowed - 55 minutes

Read Carefully

1. Answer as many questions as you can.
2. Full credit will be given only where the solution contains appropriate working.
3. **You may not use a calculator**

KU	RE
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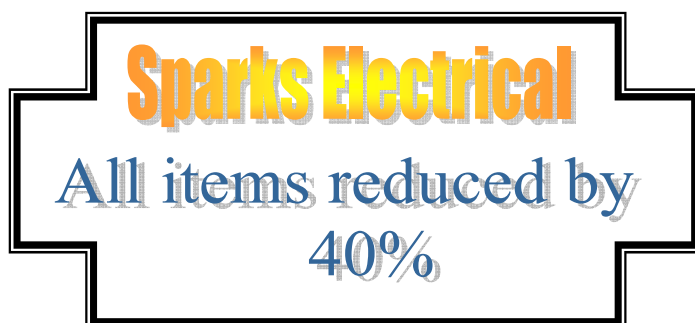
1. Evaluate $16 \cdot 9 + 0 \cdot 54 \times 40$

2.
$$P = \frac{kQ}{r^2}$$

Change the subject of the formula to r .

3. Factorise fully $4x^2 - 10x - 6$.

4. Sparks Electrical are having their annual clearance sale where everything is reduced by 40%.



A Flat screen TV cost £480 in the sale.

How much did the TV originally cost?

5. Express as a single fraction in its simplest form

$$\frac{3}{x} - \frac{2}{x-5}$$

