

EVALUATION OF NUMERIC EXPRESSIONS

Using mathematical tables

KCSE 1989 – 2012 Form 3 Mathematics

1.	1989 Q1 P1 Use logarithms to evaluate (4 marks) $\sqrt[3]{(35.6 \times 0.0613^2)}$
2	1990 Q1 P2 Evaluate $\frac{1.34}{(5.24)^{0.8} \times 0.0029}$ (4 marks)
3	1991 Q1 P2 Use mathematical tables to evaluate (3 marks) $\sqrt{\left[\frac{2.935 \times 0.0765}{32.74} \right]}$
4	1992 Q1 P1 Use logarithms to evaluate $\sqrt[3]{\left[\frac{7.08}{76.8 \times 7.034} \right]}$ (4 marks)
5	1993 Q2 P1 Use logarithms to evaluate $\frac{\sqrt{0.0645}}{0.0082}$ (3 marks)
6	1994 Q1 P1 Use logarithms to evaluate $\sqrt[4]{\frac{4.562 \times 0.038}{0.82}}$ (4 marks)
7	1995 Q1 P2 Use logarithms to evaluate (4 marks) $\frac{(0.07284)^2}{3\sqrt{0.06195}}$

8	1996 Q1 P1 Use logarithms to evaluate $3\sqrt{\frac{36.15 \times 0.02573}{1.938}}$	(3 marks)
9	1997 Q1 P1 Use logarithms to evaluate $\frac{(1934)^2 \times \sqrt{0.00324}}{436}$	(4 marks)
10	1998 Q1 P2 Use logarithms to evaluate $55.9 \div (0.2621 \times 0.01177)^{\frac{1}{5}}$	(4 marks)
11	1999 Q1 P2 Use logarithms to evaluate $\left(\frac{6.79 \times 0.3911}{\log 5}\right)^{\frac{3}{4}}$	(4 marks)
12	2000 Q11 P2 Use the logarithms to evaluate $3\sqrt{\frac{1.23 \times 0.0089}{76.54}}$	(4 marks)
13	2001 Q1 P1 Find the reciprocal of 0.342. Hence evaluate: $\frac{\sqrt{0.0625}}{0.342}$	(3 marks)
14	2001 Q3 P1 Use logarithms to evaluate $(3.256 \times 0.0536)^{\frac{1}{3}}$	(4 marks)
15	2002 Q1 P2 Use logarithms to evaluate $\frac{(0.0056)^{1/2}}{1.38 \times 27.42}$	(3 marks)

16	<p>2002 Q5 P1</p> <p>Use reciprocal and square tables to evaluate, to 4 significant figures, the expression: $\frac{1}{24.56} + 4.346^2$</p> <p>(3 marks)</p>
17	<p>2003 Q1 P2</p> <p>Use logarithm tables to evaluate $\frac{2347 \times 0.4666}{3\sqrt{0.0924}}$ (4 marks)</p>
18	<p>2004 Q1 P2</p> <p>Use logarithms to evaluate $\frac{34.33}{\sqrt{5.25 \times 0.042}}$ (4 marks)</p>
19	<p>2004 Q8 P1</p> <p>Use tables of reciprocals only to work out</p> $\frac{3}{0.6735} + \frac{13}{0.156}$ <p>(3 marks)</p>
20	<p>2006 Q1 P2</p> <p>In this question, show all the steps in your calculations, giving your answers at each stage</p> <p>Use logarithms, correct to 4 decimal places, to evaluate</p> <p>(4 marks)</p> $3\sqrt{\frac{36.72 \times (0.46)^2}{185.4}}$
21	<p>2007 Q1 P2</p> <p>Using logarithm tables, evaluate $\left(\frac{0.032 \times 14.26}{0.006}\right)^{\frac{2}{3}}$ (3 marks)</p>
22	<p>2008 Q1 P2</p> <p>In this question, show all the steps in your calculations, giving the answer at each stage. Use logarithms correct to decimal places, to evaluate.</p> $\frac{6.373 \log 4.948}{\sqrt{0.004636}}$ <p>(3mks)</p>
23	<p>2011 Q1 P2</p> <p>Use logarithms, correct to 4 decimal places, to evaluate</p> $3\sqrt{\frac{83.46 \times 0.0054}{1.56^2}}$ <p>(4marks)</p>
24	<p>2012 Q2 P1</p> <p>Find the reciprocal of 0.216 correct to 3 decimal places, hence evaluate</p> $\frac{\sqrt[3]{0.512}}{0.216}$ <p>(3marks)</p>