

EVALUATION OF NUMERIC EXPRESSION

KCSE 1989 – 2012 Form 1 Mathematics
Answer all the questions

1.	1990 Q1 P1 Without using tables evaluate (4 marks) $\sqrt{\frac{29.16}{0.025 \times 4.8}}$
2.	1990 Q3 P1 Without using tables evaluate (4 marks) $\sqrt{\frac{153 \times 0.18}{0.68 \times 0.32}}$
3.	1992 Q 1 P1 Without using mathematical tables evaluate (3 marks) $\frac{0.18 \times 4}{\sqrt{3.24 \times 4}}$
4.	1995 Q 1 P1 Without using logarithms tables evaluate (3 marks) $\sqrt{\frac{384.16 \times 0.0625}{96.04}}$
5.	1996 Q 1 P2 Evaluate without using mathematical tables $\sqrt{\frac{0.0625 \times 2.56}{0.25 \times 0.08 \times 0.5}}$
6.	1997 Q1 P2 Evaluate without using mathematical tables $\frac{1.9 \times 0.032}{20 \times 0.0038}$
7.	1998 Q 1 P1 Evaluate without using mathematical tables $1000 \left(\sqrt{\frac{0.0128}{200}} \right)$

8.	<p>2004 Q 1 P1</p> <p>Without using logarithm tables evaluate</p> $\frac{0.015 + 0.45 \div 1.5}{4.9 \times 0.2 + 0.07}$
9.	<p>2005 Q 2 P1</p> <p>Express the numbers 1470 and 7056, each as a product of its prime factors</p> <p>Hence evaluate $\frac{1470^2}{\sqrt{7056}}$ Leaving the answer in prime factor form (3 marks)</p>
10.	<p>2006 Q 1 P1</p> <p>Without using mathematical tables or a calculator evaluate (4 marks)</p> $\frac{3\sqrt{675 \times 135}}{\sqrt{2025}}$
11.	<p>2007 Q 1 P1</p> <p>Evaluate without using mathematical tables or a calculator</p> $\frac{0.0084 \times 1.23 \times 3.5}{2.87 \times 0.056}$ <p>Expressing the answer as a fraction in its simplest form (2 marks)</p>
12.	<p>2009 Q 1 P1</p> <p>Without using mathematical tables or calculators, evaluate (3 marks)</p> $\frac{\sqrt{5184}}{6 \times 18 \div 9 + (5 - 3)}$
13.	<p>2012 Q12 P1</p> <p>Without using mathematical tables or a calculator, solve the equation $2 \log_{10} x - 3 \log_{10} 2 + \log_{10} 32 = 2$ (3marks)</p>