

NAME _____ INDEX NUMBER _____

SCHOOL _____ DATE _____

EVALUATION OF NUMERIC EXPRESSION

<i>KCSE 1989 – 2012 Form 1 Mathematics</i> <i>Answer all the questions</i>	Working space
<p>1. 1990 Q1 P1 Without using tables evaluate (4 marks)</p> $\sqrt{\frac{29.16}{0.025 \times 4.8}}$	
<p>2. 1990 Q3 P1 Without using tables evaluate (4 marks)</p> $\sqrt{\frac{153 \times 0.18}{0.68 \times 0.32}} \quad \sqrt{\frac{153 \times 0.18}{0.68 \times 0.32}}$	
<p>3. 1992 Q 1 P1 Without using mathematical tables evaluate (3 marks)</p> $\frac{0.18 \times 4}{\sqrt{3.24 \times 4}}$	

		Working space
4.	<p>1995 Q 1 P1 Without using logarithms tables evaluate (3 marks)</p> $\sqrt{\frac{384.16 \times 0.0625}{96.04}}$	
5.	<p>1996 Q 1 P2 Evaluate without using mathematical tables</p> $\sqrt{\frac{0.0625 \times 2.56}{0.25 \times 0.08 \times 0.5}}$	
6.	<p>1997 Q1 P2 Evaluate without using mathematical tables</p> $\frac{1.9 \times 0.032}{20 \times 0.0038}$	

		Working space
7.	1998 Q 1 P1 Evaluate without using mathematical tables $1000 \left(\sqrt{\frac{0.0128}{200}} \right)$	
8.	2004 Q 1 P1 Without using logarithm tables evaluate $\frac{0.015 + 0.45 \div 1.5}{4.9 \times 0.2 + 0.07}$	
9.	2005 Q 2 P1 Express the numbers 1470 and 7056, each as a product of its prime factors $\frac{1470^2}{\sqrt{7056}}$ Hence evaluate Leaving the answer in prime factor form (3 marks)	
10.	2006 Q 1 P1 Without using mathematical tables or a calculator evaluate (4 marks) $\frac{3\sqrt{675 \times 135}}{\sqrt{2025}}$	

		Working space
11.	<p>2007 Q 1 P1 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 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 Without using mathematical tables or a calculator, solve the equation (3 marks)</p> $2 \log_{10} x - 3 \log_{10} 2 + \log_{10} 32 = 2$	

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