

NAME _____ INDEX NUMBER _____

SCHOOL _____ DATE _____

INTEGERS

<i>KCSE 1989 – 2012 Form 1 Mathematics</i> <i>Answer all the questions</i>		Working space
1.	1999 Q1a P1 Evaluate $\frac{-8 \div 2 + 12 \times 9 - 4 \times 6}{56 \div 7 \times 2}$	
2.	2000 Q1 P1 Evaluate $\frac{28 - (-18)}{-2} - \frac{15 - (-2)(-6)}{3}$	

		Working space
3.	<p>2002 Q1 P1</p> <p>Evaluate:</p> $\frac{-12 \div (-3) \times 4 - (-20)}{-6 \times 6 \div 3 + (-6)}$ <p>(3 marks)</p>	
4.	<p>2006 Q2 P1</p> <p>All prime numbers less than ten are arranged in descending order to form a number.</p> <p>(a) Write down the number formed (1 mark)</p> <p>(b) State the total value of the second digit in the number formed in (a) above (1 mark)</p>	
5.	<p>2008 Q1 P1</p> <p>Without using a calculator, evaluate</p> $\frac{-8 + (-5) \times (-8) - (-6)}{-3 + (-8) \div 2 \times 4}$ <p>(2 marks)</p>	

		Working space
6.	<p>2009 Q1 P1</p> <p>A watch which loses a half minutes every hour was set to reach the correct time at 05 45h on Monday. Determine the time in the 12 hour system, the watch will show on the watch will show on the following Friday at 1945h.</p> <p>(3 marks)</p>	
7.	<p>2010 Q1 P1</p> <p>Without using a calculator evaluate, (3 marks)</p> $\frac{-2(5+3)-9 \div 3+5}{-3 \times -5 \pm 2 \times 4}$	
8.	<p>2010 Q11 P1</p> <p>A fruit vendor bought 1948 oranges on a Thursday and sold 750 of them on the same day. On Friday, he sold 240 more oranges than on Thursday. On Saturday he bought 560 more oranges. Later that day, he sold all the oranges he had at a price of Ksh 8 each.</p> <p>Calculate the amount of money the vendor obtained from the sales of Saturday.</p> <p>(4 marks)</p>	

		Working space
9.	<p>2011 Q4 P1</p> <p>A square room is covered by a number of whole rectangular slabs of sides 60cm by 42 cm. Calculate the least possible area of the room in square metres.</p> <p style="text-align: right;">(3 marks)</p>	
10.	<p>2011 Q14 P1</p> <p>(a) Express 10500 in term of its prime factors (1 mark)</p> <p>(b) Determine the smallest positive number P such that $10500p$ is a perfect cube. (2 marks)</p>	
11.	<p>2012 Q6 P1</p> <p>Three bells rang at intervals of 9minutes, 15 minutes and 21minutes. The bells will ring together at 11.00p.m.Find the time the bells had last rang together (3 marks)</p>	

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