
FORM ONE TERM ONE EXAMS 2017

MATHEMATICS MARKING SCHEME

SCHOOLS NET KENYA

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No.	WORKING	AWARD	EXPLANATION
1.	Twenty seven million seven hundred and seven thousand eight hundred and seven	B1 B1	
		02	
2.	a) $2/4=3/6$ b) $2/5<3/4$	B1 B1	
		02	
3.	a)ones b)hundredths c)tenths	B1 B1 B1	
		03	
4.	$256=2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2=2^8$	04	
5.	$7/8 \div \frac{5}{2} + 7/4 \div 5/4$ $(7/8 \times 2/5) + (7/4 \times 4/5)$ $7/20 + 7/5$ $7/4$ or $1\frac{3}{4}$	M1 M1 A1	Removing bracket Division
		03	
6.	$51\frac{3}{4} = \frac{207}{4}$ km, $\frac{69}{8}$ litres $\frac{69}{8} = \frac{207}{4}$ 1litre=? $\frac{207 \times 8}{4 \times 69} =$ =6km/lit	M1 M1 M1 A1	
		04	
7.	a) $-2>-3$ b) $-3<4$ C) $5>-5$	B1 B1 B1	
		03	
8.	$24=2 \times 2 \times 2 \times 3=2^3 \times 3$ $15=3 \times 5$ $16=2 \times 2 \times 2 \times 2=2^4$ $LCM=2^4 \times 3 \times 5$ =16X3X5 =240	M1 M1 M1 A1	
		04	
9.	a) 7, 2 b) 2,3	B1 B1	
		02	
10.	a) $\frac{3}{4} \times 100$ =75% b) $\frac{1}{4} \times 100$ =25%	M1 A1 M1 A1	
		04	
11.	$60=2^2 \times 3 \times 5$ $80=2^4 \times 5$ $120=2^3 \times 3 \times 5$ GCD= $2^2 \times 5$ =4x5	M1 M1	

	=20	A1	
		03	
12.	K=6 Total parts=20 Fraction=6/20 3/10	M1 M1 A1	
		03	
13.	5005005005	B2 B1 B0	All positions correct 6-9 positions correct Less than 6 positions
		02	
14.	Let one be n, $1^{\text{st}} = n, 2^{\text{nd}} = n+1$ $n+(n+2)=74$ $2n=72$ $N=36$ Nos, 36 & 38	M1 M1 M1 A1	Both correct
		04	
15.	$1\frac{3}{4} = \frac{7}{4}$ $2\frac{6}{7} = \frac{20}{7}$	M1A1 M1 A1	
		04	
16.	a)  b)  c) 	B1 B1 B1	
		03	
17	a) Let tens digit be x $x + \frac{5}{4}x = 9$ $\frac{9}{4}x = 9$ $X = 4$ Ones = $5/4 \times 4 = 5$ No = 45 b) +ve diff = 5-4 Max quotient = $5/4$ Product = $1 \times 5/4$ = $5/4$ or $11/4$	M1 M1 M1 M1 M1 A1 M1 M1 M1 A1	
		10	
18.	a) LCM = $2^3 \times 3 \times 5$ = $8 \times 3 \times 5$ = 100 min = 1hr 40mins Time = 9:15 + 1hr 40min	M1 M1 M1 M1 M1	

	=10:55 am b) LCM = $2^3 \times 3 \times 5 = 100$ =1hr40mins 5^{th} time = 100×4 =400mins =8hrs40mins =9:15+8hrs40mins =5:55pm	A1 M1 M1 M1 A1	
		10	
19.	a)i) 70.864 70 ii) 708.63 700 iii) 70863 70,000 iv) 708.63 700 b) 2997 900	B2 B2 B2 B2 B2	
		10	
20.	a) Common diff = 1 LCM $8 = 2^3$ $9 = 3^2$ $6 = 2 \times 3$ LCM = $2^3 \times 3^2$ = 8×9 = 72 No. = $72 + 1$ = 73 SUM = $7 + 3$ = 10 b) LCM = 24 GCD = 4 No. = $\text{LCM} \times \text{GCD} / \text{Product}$ = $24 \times 4 / 8 \times 12$ = 1	M1 M1 M1 M1 M1 M1 A1 M1 M1 A1	
		10	
21.	a) divisible by both 2 & 3 hence divisible by 6 b) not divisible by 2 hence not divisible by 6 c) divisible by both 2 & 3 hence divisible by 6 d) not divisible by 3 hence not divisible by 6	B1 B1 B1 B1 B1 B1 B1 B1	

	e)divisible by 2&3 hence divisible by 6	B1 B1	
		10	
22.	a)196=2 ² x7 ² b)72=2 ³ x3 ² c)385=5x7x11 d)300=2 ² x3x5 ² e)715=5x11x13	B2 B2 B2 B2 B2	
		10	
23.	a)youngest +second=($\frac{1}{12} + \frac{1}{9}$) $= \frac{7}{36}$ Eldest=1- $\frac{7}{36}$ $= \frac{29}{36}$ b)eldest= $\frac{29}{36}$ $if \frac{29}{36} \equiv 330$ $\therefore \frac{36}{36} \equiv ?$ $= \frac{330 \times 36}{29}$ $= 409.655$	M1 M1 M1M1 A1 M1 M1 M1 A1	
		10	
24.	a) 370 0 b)2499 2500 c)38679 40,000 d)473678 473,000 e)501 1000		
