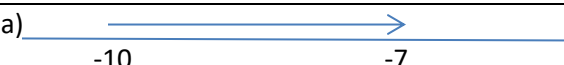




## MATHS FORM 1 MARKING SCHEME

No.	WORKING	AWARD	EXPLANATION
1.	Twenty seven million seven hundred and seven thousand eight hundred and seven	B1 B1	
		O2	
2.	a) $2/4 < 3/6$ b) $2/5 < 3/4$	B1 B1	
		O2	
3.	a) ones b) hundredths c) tenths	B1 B1 B1	
		O3	
4.	$256 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 = 2^8$	O4	
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
		O3	
6.	$51\frac{3}{4} = \frac{207}{4}$ km, $\frac{69}{8}$ litres  $\frac{69}{8} = \frac{207}{4}$ 1litre=?  $\frac{207 \times 8}{4 \times 69} =$ $= 6 \text{ km/lit}$	M1  M1  M1 A1	
		O4	
7.	a) $-2 > -3$ b) $-3 < 4$ c) $5 > -5$	B1 B1 B1	
		O3	
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 = $2^4 \times 3 \times 5$ $= 16 \times 3 \times 5$ $= 240$	M1  M1 M1  A1	
		O4	
9.	a) 7, 2 b) 2, 3	B1 B1	
		O2	
10.	a) $\frac{3}{4} \times 100$ $= 75\%$  b) $\frac{1}{4} \times 100$ $= 25\%$	M1 A1  M1 A1	

## MATHS FORM 1 MARKING SCHEME

		<b>04</b>	
<b>11.</b>	$60=2^2 \times 3 \times 5$ $80=2^4 \times 5$ $120=2^3 \times 3 \times 5$ $GCD=2^2 \times 5$ $=4 \times 5$ $=20$	<b>M1</b>  <b>M1</b>  <b>A1</b>	
		<b>03</b>	
<b>12.</b>	<b>K=6</b> Total parts=20 Fraction=6/20 $\frac{3}{10}$	<b>M1</b>  <b>M1</b> <b>A1</b>	
		<b>03</b>	
<b>13.</b>	5005005005	<b>B2</b> <b>B1</b> <b>B0</b>	All positions correct 6-9 positions correct Less than 6 positions
		<b>02</b>	
<b>14.</b>	Let one be n, $1^{st} = n, 2^{nd} = n+1$ $n+(n+2)=74$ $2n=72$ $N=36$ Nos, 36 & 38	<b>M1</b> <b>M1</b>  <b>M1</b> <b>A1</b>	Both correct
		<b>04</b>	
<b>15.</b>	$1\frac{3}{4} = \frac{7}{4}$  $2\frac{6}{7} = \frac{20}{7}$	<b>M1A1</b>  <b>M1</b> <b>A1</b>	
		<b>04</b>	
<b>16.</b>	a)  b)  c) 	<b>B1</b>  <b>B1</b>  <b>B1</b>	
		<b>03</b>	
<b>17</b>	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>M1</b> <b>M1</b> <b>M1</b> <b>M1</b> <b>M1</b> <b>A1</b>	

## MATHS FORM 1 MARKING SCHEME

	b) +ve diff=5-4 Max quotient=5/4  Product =1x5/4  =5/4 or 11/4	M1 M1 M1  A1	
		10	
18.	a) LCM=2 <sup>3</sup> x3x5 =8x3x5 =100 min =1hr 40mins Time =9:15+1hr 40min =10:55 am  b)LCM =2 <sup>3</sup> x3x5=100 =1hr40mins 5 <sup>th</sup> time=100x4 =400mins =8hrs40mins =9:15+8hrs40mins =5:55pm	M1 M1 M1 M1 M1 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 <sup>3</sup> 9=3 <sup>2</sup> 6=2X3 LCM=2 <sup>3</sup> X3 <sup>2</sup> =8X9 =72 No. =72+1 =73 SUM=7+3 =10	M1  M1  M1  M1 M1 M1 A1	

## MATHS FORM 1 MARKING SCHEME

	b) LCM=24 GCD=4  No.=LCM×GCD/Product =24×4/8×12 =1	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  e) divisible by 2&3 hence divisible by 6	B1 B1  B1 B1  B1 B1  B1 B1	
		10	
22.	a) $196=2^2 \times 7^2$ b) $72=2^3 \times 3^2$ c) $385=5 \times 7 \times 11$ d) $300=2^2 \times 3 \times 5^2$ e) $715=5 \times 11 \times 13$	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 $\frac{29}{36} \equiv 330$	M1  M1  M1M1  A1  M1  M1	

## MATHS FORM 1 MARKING SCHEME

	$\therefore \frac{36}{36} \equiv ?$ $= \frac{330 \times 36}{29}$ $= 409.655$	M1	
		M1	
		A1	
		<b>10</b>	
<b>24.</b>	a) 370 0  b) 2499 2500  c) 38679 40,000  d) 473678 473,000  e) 501 1000		

