


No.	GRADE 8 MARKING SCHEME	AWARD	EXPLANATION
	<b>WORKING</b>		
			
1.	a) $-2 > -3$ b) $-3 < 4$ c) $5 > -5$	<b>B1</b> <b>B1</b> <b>B1</b>	
		<b>03</b>	
2.	$24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3$ $15 = 3 \times 5$ $16 = 2 \times 2 \times 2 \times 2 = 2^4$ $LCM = 2^4 \times 3 \times 5$ $= 16 \times 3 \times 5$ $= 240$	<b>M1</b>  <b>M1</b> <b>M1</b>  <b>A1</b>	
		<b>04</b>	
3.	a) 7, 2 b) 2, 3	<b>B1</b> <b>B1</b>	
		<b>02</b>	
4.	a) $\frac{3}{4} \times 100$ $= 75\%$  b) $\frac{1}{4} \times 100$ $= 25\%$	<b>M1</b> <b>A1</b>  <b>M1</b> <b>A1</b>	
		<b>04</b>	
5.	$60 = 2^2 \times 3 \times 5$ $80 = 2^4 \times 5$ $120 = 2^3 \times 3 \times 5$ $GCD = 2^2 \times 5$ $= 4 \times 5$ $= 20$	<b>M1</b>  <b>M1</b>  <b>A1</b>	
		<b>03</b>	
6.	<b>K=6</b> Total parts=20 Fraction= $\frac{6}{20}$ $\frac{3}{10}$	<b>M1</b>  <b>M1</b> <b>A1</b>	
		<b>03</b>	
7.	Twenty seven million seven hundred and seven thousand eight hundred and seven	<b>B1</b> <b>B1</b>	
		<b>02</b>	
8.	a) $\frac{2}{4} = \frac{3}{6}$ b) $\frac{2}{5} < \frac{3}{4}$	<b>B1</b> <b>B1</b>	
		<b>02</b>	
9.	a) ones b) hundredths c) tenths	<b>B1</b> <b>B1</b> <b>B1</b>	
		<b>03</b>	



	<p>No =45</p> <p>b) +ve diff=5-4 Max quotient=5/4</p> <p>Product =1x5/4</p> <p>=5/4 or 11/4</p>	<p><b>A1</b></p> <p><b>M1</b> <b>M1</b> <b>M1</b></p> <p><b>A1</b></p>	
		<b>10</b>	
18.	<p>a) LCM=2<sup>3</sup>x3x5 =8x3x5 =100 min =1hr 40mins Time =9:15+1hr 40min =10:55 am</p> <p>b)LCM =2<sup>3</sup>x3x5=100 =1hr40mins 5<sup>th</sup> time=100x4 =400mins =8hrs40mins =9:15+8hrs40mins =5:55pm</p>	<p><b>M1</b> <b>M1</b> <b>M1</b> <b>M1</b> <b>M1</b> <b>A1</b></p> <p><b>M1</b> <b>M1</b></p> <p><b>M1</b> <b>A1</b></p>	
		<b>10</b>	
19.	<p>a)i) 70.864 70</p> <p>ii)708.63 700</p> <p>iii)70863 70,000</p> <p>iv)708.63 700</p> <p>b)2997 900</p>	<p><b>B2</b></p> <p><b>B2</b></p> <p><b>B2</b></p> <p><b>B2</b></p> <p><b>B2</b></p>	
		<b>10</b>	
20.	<p>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</p>	<p><b>M1</b></p> <p><b>M1</b></p> <p><b>M1</b></p> <p><b>M1</b> <b>M1</b> <b>M1</b> <b>A1</b></p>	

	<p>b) LCM=24 GCD=4</p> <p>No.=LCMXGCD/Product =24x4/8x12 =1</p>	<p><b>M1</b> <b>M1</b> <b>A1</b></p>	
		<b>10</b>	
<b>21.</b>	<p>a) divisible by both 2&amp;3 hence divisible by 6</p> <p>b) not divisible by 2 hence not divisible by 6</p> <p>c) divisible by both 2&amp;3 hence divisible by 6</p> <p>d) not divisible by 3 hence not divisible by 6</p> <p>e) divisible by 2&amp;3 hence divisible by 6</p>	<p><b>B1</b> <b>B1</b></p> <p><b>B1</b> <b>B1</b></p> <p><b>B1</b> <b>B1</b></p> <p><b>B1</b> <b>B1</b></p> <p><b>B1</b> <b>B1</b></p>	
		<b>10</b>	
<b>22.</b>	<p>a) <math>196=2^2 \times 7^2</math></p> <p>b) <math>72=2^3 \times 3^2</math></p> <p>c) <math>385=5 \times 7 \times 11</math></p> <p>d) <math>300=2^2 \times 3 \times 5^2</math></p> <p>e) <math>715=5 \times 11 \times 13</math></p>	<p><b>B2</b></p> <p><b>B2</b></p> <p><b>B2</b></p> <p><b>B2</b></p> <p><b>B2</b></p>	
		<b>10</b>	
<b>23.</b>	<p>a) youngest + second = <math>(\frac{1}{12} + \frac{1}{9})</math></p> <p style="text-align: center;"><math>= \frac{7}{36}</math></p> <p>Eldest = <math>1 - \frac{7}{36}</math></p> <p style="text-align: center;"><math>= \frac{29}{36}</math></p> <p>b) eldest = <math>\frac{29}{36}</math></p> <p>if <math>\frac{29}{36} \equiv 330</math></p> <p style="text-align: center;"><math>\therefore \frac{36}{36} \equiv ?</math></p>	<p><b>M1</b></p> <p><b>M1</b></p> <p><b>M1M1</b></p> <p><b>A1</b></p> <p><b>M1</b></p> <p><b>M1</b></p> <p><b>M1</b></p>	

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

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