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| **No.** | GRADE 8 MARKING SCHEME |  |  |
|  | **WORKING** | **AWARD** | **EXPLANATION** |
| **1.** | a) -2>-3  b) -3<4  C) 5>-5 | **B1**  **B1**  **B1** |  |
|  |  | **03** |  |
| **2.** | 24=2X2X2X3=23X3  15=3X5  16=2X2X2X2=24  LCM=24X3X5  =16X3X5  =240 | **M1**  **M1**  **M1**  **A1** |  |
|  |  | **04** |  |
| **3.** | a) 7, 2  b) 2,3 | **B1**  **B1** |  |
|  |  | **02** |  |
| **4.** | a)  =75%  b)  =25% | **M1**  **A1**  **M1**  **A1** |  |
|  |  | **04** |  |
| **5.** | 60=22x3x5  80=24x5  120=23x3x5  GCD=22x5  =4x5  =20 | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **6.** | **K**=6  Total parts=20  Fraction=6/20  3/10 | **M1**  **M1**  **A1** |  |
|  |  | **03** |  |
| **7.** | Twenty seven million seven hundred and seven thousand eight hundred and seven | **B1**  **B1** |  |
|  |  | **02** |  |
| **8.** | a) 2/4=3/6  b)2/5<3/4 | **B1**  **B1** |  |
|  |  | **02** |  |
| **9.** | a)ones  b)hundredths  c)tenths | **B1**  **B1**  **B1** |  |
|  |  | **03** |  |
| **10.** | 256=2X2X2X2X2X2X2X2=28 | **04** |  |
| **11.** | 7/8  (7/8X2/5)+(7/4X4/5)  7/20+7/5  7/4 or 1 | **M1**  **M1**  **A1** | Removing bracket  Division |
|  |  | **03** |  |
| **12.** | 51=km, litres  =  1litre=?  =  =6km/lit | **M1**  **M1**  **M1**  **A1** |  |
|  |  | **04** |  |
| **13.** | 5005005005 | **B2**  **B1**  **B0** | All positions correct  6-9 positions correct  Less than6 positions |
|  |  | **02** |  |
| **14.** | Let one be n,  1st =n, 2nd= n+1  n+(n+2)=74  2n=72  N=36  Nos,36 &38 | **M1**  **M1**  **M1**  **A1** | Both correct |
|  |  | **04** |  |
| **15.** | =  = | **M1A1**  **M1**  **A1** |  |
|  |  | **04** |  |
| **16.** | a)  -10 -7  b)  -3 0 +1  c) 0 1 8 | **B1**  **B1**  **B1** |  |
|  |  | **03** |  |
| **17** | 1. Let tens digit be x   =9  =9  X=4  Ones=5/4x4=5  No =45   1. +ve diff=5-4   Max quotient=5/4  Product =1x5/4  =5/4 or 11/4 | **M1**  **M1**  **M1**  **M1**  **M1**  **A1**  **M1**  **M1**  **M1**  **A1** |  |
|  |  | **10** |  |
| **18.** | a) LCM=23x3x5  =8x3x5  =100 min  =1hr 40mins  Time =9:15+1hr 40min  =10:55 am  b)LCM =23x3x5=100  =1hr40mins  5th 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=23  9=32  6=2X3  LCM=23X32  =8X9  =72  No. =72+1  =73  SUM=7+3  =10  b)LCM=24  GCD=4  No.=LCMXGCD/Product  =24x4/8x12  =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 by6  e)divisible by 2&3  hence divisible by 6 | **B1**  **B1**  **B1**  **B1**  **B1**  **B1**  **B1**  **B1**  **B1**  **B1** |  |
|  |  | **10** |  |
| **22.** | a)196=22x72  b)72=23x32  c)385=5x7x11  d)300=22x3x52  e)715=5x11x13 | **B2**  **B2**  **B2**  **B2**  **B2** |  |
|  |  | **10** |  |
| **23.** | a)youngest +second=(    =  Eldest=1-    =  b)eldest= | **M1**  **M1**  **M1M1**  **A1**  **M1**  **M1**  **M1**  **M1**  **A1** |  |
|  |  | **10** |  |
| **24.** | a) 370  0  b)2499  2500  c)38679  40,000  d)473678  473,000  e)501  1000 |  |  |