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| S.No | Solution | Marks |
| 1 | Infinitely many | 1 |
| 2 | 0 | 1 |
| 3 | 4 | 1 |
| 4 | X | 1 |
| 5 | 52=2562=3672 =49Ans:-36  | 11 |
| 6 | 992=(100-1)2 =1002+12-200 =10001-200 =9801 | 11 |
| 7 | Area of quadrilateral=1/2(13+8)x24 =252m2 | 11 |
| 8 | Surface area of cube=6(10)2 cm2=600 cm2 | 11 |
| 9 | A=2B=5 | 11 |
| 10 | 2+1+Y+5=98+Y=9Y=1 | 11/21/2 |
| 11 | Correct location of 7/4 and -3/4 | 1 each |
| 12 | 1008=24 x32 x7It should be multiplied by 7 | 21 |
| 13 | =1.6By appropriate method | 3 |
| 14 | 1. (1+) x 4

 =x 4 =5(b)1.524 x 107 | 11 |
| 15 |  (a)(2p)2 – (3q)2 = (2p+3q)(2p-3q)(b)p2-5p-5p+ 25 =(p-5)(p-5) | 11 |
| 16 | Correct graph Yes it is linear | 21 |
| 17 | 1. Correct information
2. 140-145
3. (125-130 and 155-160 )and(130-135 and150-155)
 | 111 |
| 18 | 1. & (b) for correct view
 | each |
| 19 |  and  and …….Give full marks for correct alternate method | 112 |
| 20 | X=0LHS = 4RHS =4 | 211 |
| 21 | Let unit place digit = xThen tens place digit = 9-xCorrect original number = 90-9xCorrect number on interchanging the digits =9x+9Correct answer = 36 ORLet the number of five-rupee coins that Bansi has be *x.* Then the number oftwo-rupee coins he has is 3 times *x* or 3*x*.Hence the total money =5x + 6x = Rs 11*x*11*x* = 77or *x* = 77/11 = 7Thus, number of five-rupee coins = *x* = 7and number of two-rupee coins = 3*x* = 21 | 1121111 |
| 22 | (4x)2+(5+1)4x+5×116x2+24x+5OR(xyz)2 + (-4-2)xyz + 8X2y2z2 – 6xyz + 8 | 1111 |
| 23 | r= 7 m and h=3mTSA = 2πr(h+r) = 2××7 (7+3) = 440 m2 | 31 |
| 24 | 4 | 4 |
| 25 | X = 700 bottles | 31 |
| 26 | Inverse Proportion

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| children | 24 | 20 |
| Sweets per child | 5 | y |

Therefore ,24 x 5 =20 x y Or y=6Each will get 6 sweets | 121  |
| 27 | ==(y+2) | 31 |
| 28 | Writing Euler’s formula, F+V-E=2 9+9-16=218-16=22=2Hence verified | 13 |
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