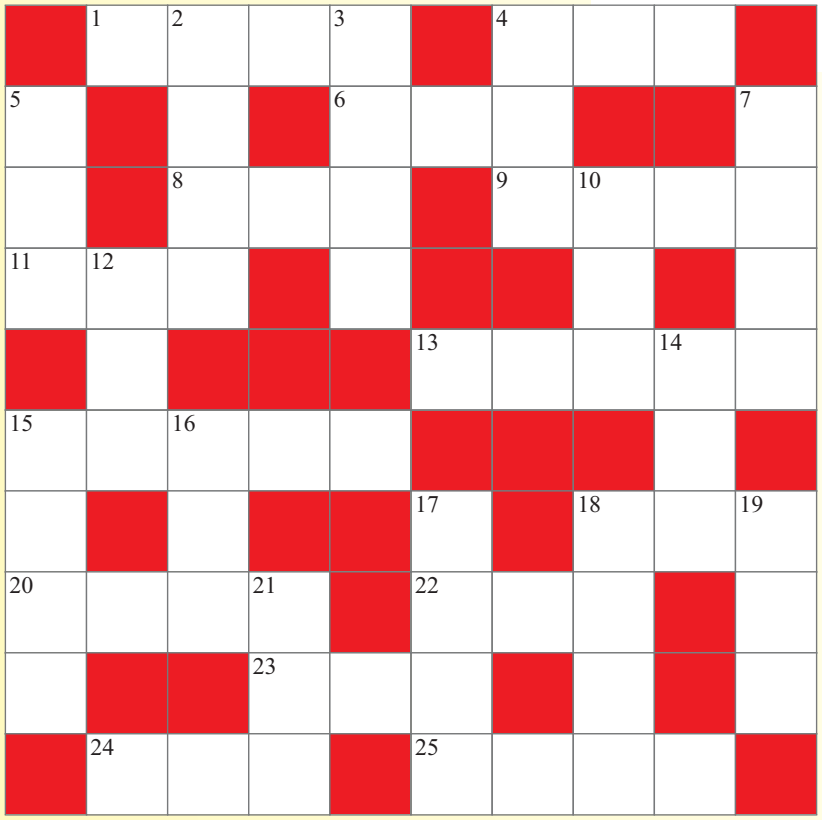
For Bi-lingual students

Cross number puzzle for Grade 10 and 11

Zonal education office - Hambantota
Mathematics Unit



Across

1. x where 10 Down : 11 Across = x: 2093
4. A palindromic triangular number
6. A multiple of 11
8. The remainder when 13Across is divided by 1 4 Down
9. The lowest common multiple of 4 Downand 18 Across
11. The number of digits in $32^{32} \times 625^{40}$
13. 15 Across plus the mean of 3Down and 9Across
15. The number of different arrangements of the letters in the word *isosceles*
18. The area of a right-angled triangle whose longest sides are 63 and 65
20. The product of its digits is a square triangular number
22. 15 Across divided by 35
23. 12Down plus 16 Down
24. 5 Down minus a solution of $m^2 - 52m + 4$Across $= 0$
25. $x \times y$ where $8x - 5y = 18$ Across and $x + 16y = 4$ Across

Down

2. The product of its digits is a positive square
3. The number of different arrangements of the letters in the word parallel
4. The area of a right-angled triangle whose longest sides are 84 and 85
5. 21 Down plus the mean of 4 Down and 18Across
7. x where 16 Down : 18Across = 2738 : x
10. A factor of one less than 25Across
12. A Fibonacci number
14. x x y where $7x - 29y =$ 5 Down and $192y - 6x =$ 16 Down
15. The highest common factor of 15Across and 3 Down
16. 11Across plus a solution of $n2 - 71n + 12$ Down $= 0$
17. A multiple of 5 Down
18. A palindromic number
19. The remainder when 9Across is divided by 12 Down
21. One less than the number of digits in $64^{64} - 125^{129}$

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