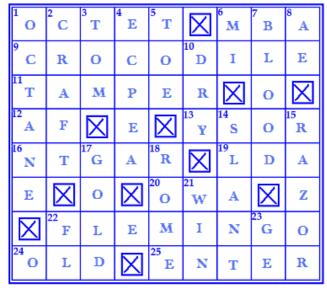
January 2010 Issue

Solutions & Winners

Kids' 'X' Word Solution



Kids Challenge!

Did you find the word? It is "DICTIONARY".

Smart kids :

- 1. Sravya Ainapurapu, St. Louis.
- 2. Sruthi Ainapurapu, St. Louis.

Kids' 'X'word Winners:

- 1. Jaya Dandamudi, Florida.
- 2. Nikhil Gadi, California.
- 3. D. Aditya, Lucknow.

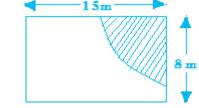
Salutation to your solution! - Answers

1. 38.5 Sq. meters.

In the adjacent rectangle of size 15 x 8 meters, the cow can reach 7 meters from one corner. So the cow covers one-fourth of circle of radius 7 meters. So the area of the field, the cow can reach is $\pi r^2/4$, where r=7.

The area of the field is $(22/7) \times 7^2/4 = 38.5$ sq. m.

^{2.} $0.3\overline{7} = \frac{37 \cdot 3}{90} = \frac{34}{90} = \frac{17}{45}$



3. The value of expression Ax2 + Bx + C is 10 when x = 1. When the value of x is substituted in the expression, A + B + C = 10(1) The value of expression is 5 when x = 0, so C = 5(2) The value of expression is 4 when x = -1, so A - B + C = 4(3) From 1 and 2, A + B = 5(4) From 2 and 3, A - B = -1(5) From 4 and 5, $2A = 4 \Rightarrow A = 2$, B = 3. So the expression is $2x^2 + 3x + 5$.

- **4**. The solution is simple. There are 5 coins in one row and 4 in the other row. We need move one coin to make two rows of 5 coins each. As shown in the figure A (next page) one coin is moved and put on the other coin. So two coins are there at one place. Now the count in both the rows (horizontal & Vertical) comes to 5.
- **5.** The multi-story building is having floors in such a way that every floor height is 99/100th of its lower level floor height. So if the ground floor is 100 units heigh, next level will be 99 units. The ground level floor is 15ft high. If we notice the floor heights

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