

D.A.V. PUBLIC SCHOOL, VELACHERY, CHENNAI-42

CLASS: X

SUBJECT: MATHEMATICS

CHAPTER 4: QUADRATIC EQUATIONS

CURIOSITY QUESTIONS

1. Represent the following as a quadratic equation. The angry Arjun carried some arrows for fighting with Bheeshma. With half the arrows, he cut down the arrows thrown by Bheeshma on him and with six other arrows, he killed the rath driver of Bheeshma. With one arrow each, he knocked down respectively the rath, flag and the bow of Bheeshma. Finally, with one more than four times the square root of arrows, he laid Bheeshma unconscious on an arrow bed.

Find the total number of arrows Arjun had.

ANSWER GUIDE:

Think about :

1. What is a quadratic equation?
2. What is the difference between a quadratic polynomial and a quadratic equation?
3. What is a pure quadratic equation?
4. Can you solve every quadratic equation by factorization?

EXPERIENTIAL LEARNING

<https://www.youtube.com/watch?v=fMeUJkEPBHk>

The above video link is useful to memorise the quadratic formula

$$\left[x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \right] \text{ using song and dance.}$$

Video Link : <https://youtu.be/He42k1xRpbQ>

The above video link is useful to understand the quadratic functions and parabolas in the real world.