

### Quadratic Equations : Worksheet - 8

1. In a class test, the sum of Shefali's marks in Mathematics and English is 30. Had she got 2 marks more in Mathematics and 3 marks less in English, the product of their marks would have been 210. Find her marks in the two subjects.
2. The diagonal of a rectangular field is 60 metres more than the shorter side. If the Longer side is 30 metres more than the shorter side, find the sides of the field.
3. The difference of squares of two numbers is 180. The square of the smaller number is 8 times the larger number. Find the two numbers.



4. A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train.

5. An express train takes 1 hour less than a passenger train to travel 132 km between Mysore and Bangalore (without taking into consideration the time they stop at intermediate stations). If the average speed of the express train is 11 km/h more than that of the passenger train, find the average speed of the two trains.

