Direct Variation Worksheets

1. The area of a square is directly proportional to the square of the length of its side. The area of a square is 400 square units, for a side of length 20 units. What is the area of a square having a side of length 25 units?

2. The cloth required to stich 50 dresses is 125 meters. What is the length of the cloth required to stick for 40 dresses?

3. X : 8 = 25 : 40. What is the value of X?
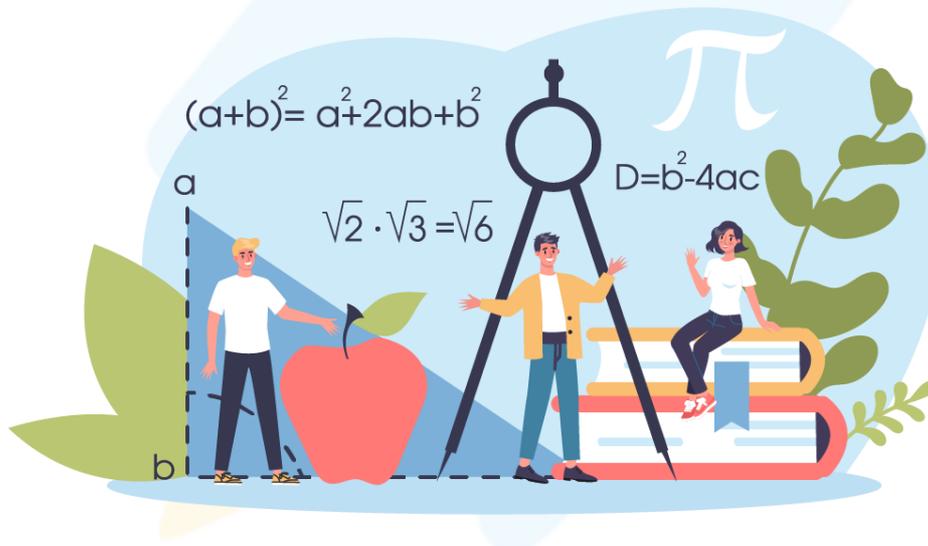
4. The cost of a dozen oranges is $60. What is the cost of a score of oranges?

5. The price of 6 tickets to a puppet show is $48. What is the cost of 9 tickets to the puppet show?

6. The cost of one quintal of rice is $800. What is the cost of 36kgs of rice?

7. The length of a rectangle is triple its breadth. The perimeter of a rectangle is eight times its breadth. Find the perimeter of a rectangle having a bread of 6 units.

8. A factory provides masks to its worker, while they are at work. The factory required about 20,000 masks for a work force of 800 members. Find the number of masks which would be required for about 100 workers.

9. A car covers a distace of 320 miles in 8 hours. Find the distance covered by the car in 3.5 hours.

10. The area of a circle is directly proportional to square of its radius. The area of a circle is $81\,\pi$ square units, for a circle with diameter of 18 units. What is the area of a cirle having a diameter of 21 units?

![cuemath THE MATH EXPERT]

When you learn math in an interesting way, you never forget.

25 Million
Math classes & counting

100K+
Students learning Math the right way

20+ Countries
Present across USA, UK, Singapore, India, UAE & more.

Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

Get the Cuemath advantage

Book a FREE trial class

ANSWERS

1)	625 square units
2)	100 meters
3)	5
4)	$ 100
5)	$ 72
6)	$ 288

7)	48 units
8)	2500
9)	140 miles
10)	110.25 π square units