



# DIRECT & INVERSE PROPORTION

Worksheet 3



**STUDY WITH PURPOSE, SUCCEED WITH PASSION.**

1 2 3 4

1. Amar wrote exams in four subjects – Physics, Chemistry, Biology and Social Studies. The ratio of marks he got in these exams was 2 : 3 : 4 : 5. He got an aggregate of 70% in these exams. Each exam had the same maximum marks. In how many of these exams did he get more than 50%?

- A. 1                      B. 2                      C. 3                      D. 4
- 

2. Two pipes A and B can fill a tank in 36 hours and 45 hours respectively. If both the pipes are opened simultaneously, how much time will be taken to fill the tank?

- A. 20 hours              B. 18 hours              C. 25 hours              D. 19 hours
- 

3. If the distance travelled by a bus in 2 hours is 310 km, then the distance travelled by the same bus with the same speed in 360 seconds is\_\_\_\_\_.

- A. 20 km                      B. 3 km                      C. 3.5 km                      D. 15.5 km
- 

4. If the weight of 15 sheets of thick paper is 50 gram, how many sheets of the same paper would weight  $1\frac{1}{4}$  kilograms?

- A. 300                      B. 250                      C. 200                      D. 375
- 

5. If 8 persons complete a piece of work in 6 days, then how many days it will take to complete the same work by 6 persons?

- A. 12                      B. 8                      C. 18                      D. 3
- 

6. If x and y are directly proportional and when x = 10, y = 25, then which of the following is a possible pair of corresponding values of x and y?

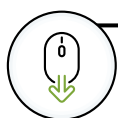
- A. 1 & 3                      B. 2 & 5                      C. 15 & 60                      D. 4 & 8
- 

7. The capacity of a cup is 300 ml. The capacity of a jug is twice that of a cup. What is the capacity of 3 cups and jugs ?

- A. 2.7 l                      B. 2700 l                      C. 27 l                      D. 270 l
- 

8. 5 women can clear a piece of land in 4 days. How many more women will be required to clear it in one day ?

- A. 10                      B. 20                      C. 25                      D. 15
- 



**scroll down for Answer key**

9. 10 men can cut 15 trees in 2 hours. If 2 men leave the job, how many trees will be cut in 3 hours?

A. 20 trees

B. 18 trees

C. 24 trees

D. 15 trees

---

10. A man can row a boat at 8 kmph in still water. If the speed of the river is 2 kmph, it takes him 48 min to row to a place and come back. How far is the place from the starting point?

A. 1 km

B. 2 km

C. 3 km

D. 4 km

---



# MeandMath

BELIEVE YOURSELF



**scroll down for Answer key**



TM

**MeandMath**

BELIEVE YOURSELF

## **BOOST YOUR MATH PERFORMANCE WITH MeandMath**



Our Premium Batches are 1:1, 1:2, 1:3 and 1:6 & another batch is 1: many batches.



Clear Doubts, Master Concepts, Excel with Confidence.



Learn on Your Schedule with Our Class Recordings.



Stay Ahead, Stay Sharp: Conquer Daily Homework Hassle-Free



Level Up Weekly: Ace Assessments with Confidence and Ease

### **Join Our Live Classes**

**Preparing for the  
Math Olympiad?**

Book Now >

### **Register to MnM Olympiad**

**Want to test your  
International Math  
Rank?**

Register Here >

Visit [meandmath.com](https://meandmath.com) to learn more about us.

# A Roadmap to Brilliance

Our curriculum paves the way.

○ **Core**      ○ **Advanced**      ○ **Scholar**

Visit [meandmath.com](https://meandmath.com) for further details on Curriculum.

*“There are many  
paths to success in  
Math. We help all  
students discover  
theirs.”*

**Are you stuck, not sure how  
to solve math problem?**

**Want to Super Charge your  
Math skills with our World Class  
practice content!**

**Join our Homework  
Help Group!**

[Join Now](#)



**Subscribe today to  
get a resource to  
unlock the World of  
Wisdom!**

[Subscribe Here](#)



Visit [meandmath.com](https://meandmath.com) to learn more about us.

# Answer Key

- 1.C
- 2.A
- 3.D
- 4.D
- 5.B
- 6.B
- 7.A
- 8.D
- 9.C
- 10.C



# MeandMath

BELIEVE YOURSELF