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For Grades 1 - 10



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## Proportional Relationships 7th Grade Worksheets

### Questions

1.  $48/39 = 16/X$
2.  $18/25 = X/10$
3. Samuel takes 40 minutes to cycle a distance of 5 kilometers. Find the distance which Samuel can cycle in 25 minutes.
4. Jacob takes 50 minutes to type 4 pages. Find the number of pages which Jacob can type in 2 hours.
5. The two quantities P and Q are inversely proportional. If P is 8 units, the value of Q is 100 units. What is the value of Q when P is equal to 2 units?
6. A train covers a certain distance in 3 hours at the rate of 120 miles per hour. Find the time taken by the train to cover the same distance if the speed is reduced to 80 miles per hour.



7. A hostel has food provisioned for 30 days to serve 80 people. If 40 more men join the hostel, the same provision would have last for how many days?

8. The cost of a score of candles is \$30 . What is the cost of a dozen candles?



9. The diagonal of a polygon is directly proportional to its perimeter. The perimeter of the polygon having a diagonal of 8 units, is equal to 36 units. What is the perimeter of a polygon having a diagonal of 10 units?

10. The area of a right triangle is directly proportional to the base of the triangle. The area of a triangle is 42 square units for a base length of 12 units. Find the area of a triangle having a base of 10 units.

**When you learn math  
in an interesting way,  
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## 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

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**ANSWERS**

(1)	13
(2)	7.2
(3)	3.125 kms
(4)	9.6 pages
(5)	400
(6)	4.5 hours
(7)	20 days
(8)	\$18
(9)	45 units
(10)	36 square units