

**13 Maths**  
Direct and Inverse Proportions

**Grade - 8**

Posttest Subjective

Time : 20 minutes

Marks :  / 20

**Short answer**

**8 Marks**

1. A tank can be filled by one pipe in 4 hours and another pipe in 3 hours. In how much time will the tank be filled if both the pipes are opened together?

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2. The map of Tripura is drawn to the scale 1:10000000, where scaling is done in centimeters. Thus, if the actual distance is 1,00,00,000 cm, then on the map it is represented as 1 cm. If the distance between two cities A and B is 250 km, find the distance between the two cities on the map.

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3. Adil reaches his school in 40 minutes if he rides his bicycle at an average speed of 15 km/h. What should be the average speed of the bicycle if he wishes to reach his school in 30 minutes?

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4. In the following table, find whether x and y vary inversely.



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3. Five buckets of paint cost Rs.1200, each of these contain 1.2 L of paint. How much will seven buckets, each containing 1.5 L of paint, cost?

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