

CLASS 8 · HOTS · OLYMPIAD PREPARATION · DPP SHEET

Chapter 6: HOTS: Proportional Reasoning 1 (Class 8)

Daily practice problems: 8 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. Divide Rs 1260 between A and B in the ratio 2 : 5.
2. If 12 notebooks cost Rs 90, find the cost of 20 notebooks.
3. Find x if $7 : 3 = 35 : x$.
4. The ratio of the ages of a father and his son is 8 : 3 and the sum of their ages is 66 years. Find their ages.
5. A recipe for 6 people uses 450 g of rice. How much rice is needed for 4 people?
6. A car runs 150 km on 12 litres of petrol. How far does it run on 20 litres?
7. Express the ratio of 45 minutes to 2 hours in its simplest form.
8. The sides of a rectangle are in the ratio 5 : 3 and its perimeter is 64 cm. Find its sides.

Answer Key

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|--------------------------------------|---------------------|
| 1. Rs 360 and Rs 900. | 5. 300 g. |
| 2. Rs 150. | 6. 250 km. |
| 3. $x = 15$. | 7. 3 : 8. |
| 4. Father 48 years and son 18 years. | 8. 20 cm and 12 cm. |

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