



# INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics (2022-23)

## Worksheet DTQ – COMPARING QUANTITIES

### SHORT ANSWER TYPE QUESTIONS- 7 QUESTIONS. (2 Marks each)

- Q1.** If marked price of an article is ₹ 800 and it is sold at ₹ 760, then find the discount and discount percent.
- Q2.** Ankit buys a memory card costing ₹ 550. If the rate of sales tax is 5%, then find the total amount payable by him.
- Q3.** Marked price of a cooker is ₹ 990. The shopkeeper allows a discount of 10%. Find the selling price of the cooker.
- Q4.** A shirt was sold for ₹ 442 after allowing a discount of 15% on the marked price. Find the marked price of the shirt.
- Q5.** Find the rate of interest and time for a sum taken for  $2\frac{1}{2}$  years at 12% per annum compounded half yearly.
- Q6.** If 8% VAT is included in the prices, find the original price of an LED bought for ₹ 43,200.
- Q7.** The number of unelectrified villages in India decreased from 16,000 to 12,000 in last 6 years. What is the percentage of decrease?

### SHORT ANSWER TYPE- 5 QUESTIONS. (3 Marks each)

- Q8.** Find the amount and the compound interest on ₹24,000 for 3 years at the rate of 5% per annum, when the interest is compounded annually.
- Q9.** The value of a car depreciates at the rate of 10% per year. If its present value is ₹ 50,000, what will be its value after 3 years?
- Q10.** The cost of an article was ₹ 2,50,000 and ₹ 50,000 were spent on its repairs. If it is sold for a profit of 15%, find the selling price of the article?
- Q11.** The population of a village is 50000. It increases by 5% every year. Find the population at the end of 2 years.
- Q12.** Find the amount on ₹15625 for  $1\frac{1}{2}$  years at 8% per annum when compounded annually.

**LONG ANSWER TYPE- 3 QUESTIONS. (4 Marks each)**

<b>Q.13</b>	What will be the difference between compound interest and simple interest on a sum of ₹45,000 at 12% per annum for 2 years.
<b>Q14</b>	Midhun borrowed ₹12000 at 10% per annum compounded annually for 2 years Jaydev borrowed same amount at the same rate for 2 years at simple interest. Who pays more interest and by how much?
<b>Q15</b>	Ashima sold two coolers for ₹ 3,990 each. On selling one cooler she gained 5% and on selling the other she suffered a loss of 5%. Find her overall gain or loss in the whole transaction.

**ANSWERS**

<b>Q1.</b>	₹40, 5%	<b>Q2.</b>	₹ 577.50	<b>Q3.</b>	₹ 891
<b>Q4.</b>	₹ 520	<b>Q5.</b>	5, 6%	<b>Q6.</b>	₹ 40,000
<b>Q7.</b>	25%	<b>Q8.</b>	₹ 27783, ₹ 3,783	<b>Q9.</b>	₹ 36,450
<b>Q10.</b>	₹ 3,45,000	<b>Q11.</b>	55125	<b>Q12.</b>	₹ 17,550
<b>Q13.</b>	₹ 648	<b>Q14.</b>	C.I = ₹2520 S.I = ₹2400 Midhun paid ₹120 more	<b>Q15.</b>	Loss ₹ 20