



# INDIAN SCHOOL AL WADI AL KABIR

**Class VII**, Mathematics

## Worksheet 1- COMPARING QUANTITIES

### MULTIPLE CHOICE QUESTIONS

|             |   |          |              |          |             |          |                    |  |  |
|-------------|---|----------|--------------|----------|-------------|----------|--------------------|--|--|
| <b>Q.1.</b> | The ratio of ₹10 to 50 paise is   |          |              |          |             |          |                    |  |  |
| <b>A</b>    | 20 : 1  | <b>B</b> | 10 : 1       | <b>C</b> | 5 : 1       | <b>D</b> | 1 : 20             |  |  |
| <b>Q.2.</b> | Express 1 : 4 as per cent is  |          |              |          |             |          |                    |  |  |
| <b>A</b>    | 20%   | <b>B</b> | 25%          | <b>C</b> | 30%         | <b>D</b> | $12\frac{1}{2}\%$  |  |  |
| <b>Q.3.</b> | 0.04 as per cent is   |          |              |          |             |          |                    |  |  |
| <b>A</b>    | 10%   | <b>B</b> | 20%          | <b>C</b> | 25%         | <b>D</b> | 4%                 |  |  |
| <b>Q.4.</b> | Out of 40 children in a class, 16 are boys. What is the percentage of boys?                   |          |              |          |             |          |                    |  |  |
| <b>A</b>    | 10%   | <b>B</b> | 40%          | <b>C</b> | 4%          | <b>D</b> | 25%                |  |  |
| <b>Q.5.</b> | The interest on a sum of ₹ 2500 for 4 years at the interest rate 4% is                        |          |              |          |             |          |                    |  |  |
| <b>A</b>    | ₹ 100   | <b>B</b> | ₹ 200        | <b>C</b> | ₹ 300       | <b>D</b> | ₹ 400              |  |  |
| <b>Q.6.</b> | What is 5% of 200?  |          |              |          |             |          |                    |  |  |
| <b>A</b>    | 2   | <b>B</b> | 5            | <b>C</b> | 10          | <b>D</b> | 100                |  |  |
| <b>Q.7.</b> | The angles of a triangle are in the ratio 1 : 1 : 2. What is the largest angle?               |          |              |          |             |          |                    |  |  |
| <b>A</b>    | 90°   | <b>B</b> | 45°          | <b>C</b> | 30°         | <b>D</b> | 60°                |  |  |
| <b>Q.8.</b> | The marks in a test decreased from 40 to 30. The percentage decrease is                       |          |              |          |             |          |                    |  |  |
| <b>A</b>    | 10%   | <b>B</b> | 20%          | <b>C</b> | 25%         | <b>D</b> | 40%                |  |  |
| <b>Q.9.</b> | An article was purchased for ₹15600 and sold for ₹15400. Is loss or profit and how much Loss? |          |              |          |             |          |                    |  |  |
| <b>A</b>    | ₹ 200 loss  | <b>B</b> | ₹ 100 profit | <b>C</b> | ₹ 120, loss | <b>D</b> | No loss /No profit |  |  |
| <b>Q.10</b> | Meenu purchased an item for ₹ 800 and sold the same for ₹ 1000. The gain percentage is        |          |              |          |             |          |                    |  |  |
| <b>A</b>    | 25%   | <b>B</b> | 20%          | <b>C</b> | 40%         | <b>D</b> | 50%                |  |  |

### FILL IN THE BLANKS/MATCH THE FOLLOWING

|             |   |  |  |  |  |  |  |  |
|-------------|---|--|--|--|--|--|--|--|
| <b>Q11.</b> | To compare two quantities the units must be _____ |  |  |  |  |  |  |  |
|-------------|---|--|--|--|--|--|--|--|

|             |   |               |   |      |
|-------------|---|---------------|---|------|
| <b>q12.</b> | The additional money paid by the borrower to the lender after a specific period of time____ |               |   |      |
| <b>q13.</b> | When S.P. > C.P., then there is _____   |               |   |      |
| <b>Q14.</b> | The money borrowed or lend is called_____   |               |   |      |
| <b>Q15.</b> | <b>Match the following:</b>   |               |   |      |
|             | 1   | 1%            | a | 21%  |
|             | 2   | 0.21          | b | 125% |
|             | 3   | $\frac{5}{4}$ | c | 75%  |
|             | 4   | 3:4           | d | 0.01 |

### SHORT ANSWER TYPE QUESTIONS

|             |   |
|-------------|---|
| <b>Q16.</b> | The population of a town in 2005 was 15,00,000 and in 2009 was 21,00,000. Find the increase per cent.       |
| <b>Q17.</b> | What sum of money lent out at 12% p.a. simple interest would produce ₹ 9000 as interest in 2 years?         |
| <b>Q18.</b> | Rashmi obtains 480 marks out of 600. Rajan obtains 560 marks out of 700. Whose performance is better?       |
| <b>Q19.</b> | The cost of an object is ₹ 800 and sold at loss of 12%. What is the sell price of the object?               |
| <b>Q20.</b> | In a fabric, cotton and synthetic fibers are in the ratio 2:3. What is the % of cotton fiber in the fabric? |

### LONG ANSWER TYPE QUESTIONS

|             |  |
|-------------|--|
| <b>Q21.</b> | Find the Simple Interest and Amount when <ul style="list-style-type: none"> <li>Principal= ₹600 rate = 5% p.a. time = 3 years.</li> <li>Principal= ₹900 rate = 6% p.a. time = 6 months.</li> </ul>                                       |
| <b>Q22.</b> | a. Mohit bought a cycle for ₹1850. He sold it at a profit of 8%. Find the selling price of the cycle.<br>b. Karim bought a motorcycle for ₹13100. After 6 months he sold at loss of 12%. Find the selling price of the motorcycle.       |
| <b>Q23.</b> | a. A bookseller sells all his books at a profit of 15%. If he buys a book from the distributor at ₹200, how much does he sell it for?<br>b. By selling a sofa set for ₹4,400 a shopkeeper loss 20%. Find the cost price of the sofa set? |
| <b>Q24.</b> | Karan and shashank borrowed ₹6,000 each at the rate of 12% per annum for a period of 2 years and 3 years respectively. Find the difference between the interest paid by them?  |
| <b>Q25.</b> | Find the value of $x$ if <ul style="list-style-type: none"> <li>a. 10% of <math>x</math> is 27</li> <li>b. 1% of <math>x</math> is 8</li> <li>c. 45% of <math>x</math> is 180</li> </ul>   |

**Answers:**

|    |   |     |   |     |                 |     |          |     |                                  |
|----|---|-----|---|-----|-----------------|-----|----------|-----|----------------------------------|
| Q1 | A | Q6  | C | Q11 | Equal           | Q16 | 40%      | Q21 | a- I=90, A=690<br>b- I=27, A=927 |
| Q2 | B | Q7  | A | Q12 | Interest        | Q17 | ₹ 37500  | Q22 | a- 1998, b- 11528                |
| Q3 | D | Q8  | C | Q13 | Profit          | Q18 | Same 80% | Q23 | a- 230, b-5500                   |
| Q4 | B | Q9  | A | Q14 | Principal       | Q19 | ₹ 704    | Q24 | 1440, 2160 diff -720             |
| Q5 | D | Q10 | A | Q15 | 1-d,2-a,3-b,4-c | Q20 | 40%      | Q25 | a. -270 , b -800 , c -400        |