

CITIVUS

Ratio & Proportion, Percentage, and Data Handling

WORKSHEET 3

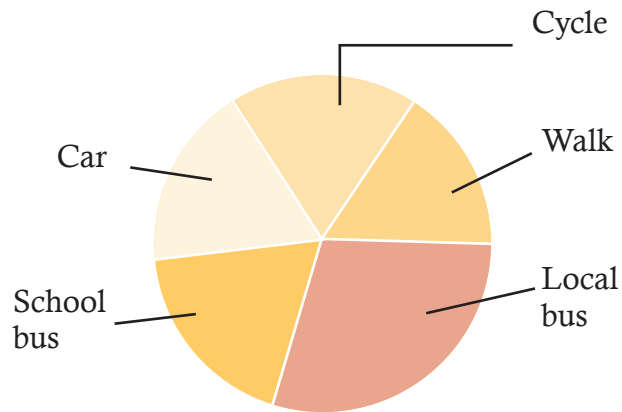
Theme	Ratio & Proportion, Percentage, and Data Handling
Question 1	<p>The ratio of the number of sides of a square to the number of edges of a cube is:</p> <ul style="list-style-type: none">• 1 : 2• 3 : 4• 4 : 1• 1 : 3
Question 2	<p>If a bus travels 160 km in 4 hours and a train travels 320 km in 5 hours at uniform speeds, then the ratio of the distance travelled by them in 1 hour is</p> <ul style="list-style-type: none">• 1 : 2• 5 : 8• 8 : 5• 4 : 5
Question 3	<p>If 4, x, 32 and 40 are in proportion, what the value of x?</p> <ul style="list-style-type: none">• 4• 5• 2• 6

Question 4	<p>If x, y and z are in proportion, then which of the following is true?</p> <ul style="list-style-type: none"> • $x : y :: z : x$ • $x : y :: y : z$ • $x : y :: z : y$ • $x : z :: y : z$
Question 5	<p>The price of a T-shirt was ₹320. It was first increased by 20 % and then decreased by 20 %. What is the new price of the T-shirt?</p> <ul style="list-style-type: none"> • ₹320 • ₹310.60 • ₹308 • ₹307.20
Question 6	<p>Arham bought a car after taking a loan from a bank. The loan has to be repaid in equal monthly instalments over 3 years. If Arham paid ₹8,200 in the first 2 months, the amount he still has to pay back over the remaining part of 3 years is:</p> <ul style="list-style-type: none"> • ₹1,39,400 • ₹1,83,500 • ₹82,000 • ₹1,34,900

Question 7	<p>In an examination which has questions worth 100 marks, Uma scores 57 marks while Rahul loses 34 marks in his paper. What is the ratio of the marks of Uma to that of Rahul?</p> <ul style="list-style-type: none"> • 19 : 22 • 22 : 19 • 19 : 23 • 20 : 23
Question 8	<p>Choose the pair of letters which has the same frequency.</p> <p>A, B, O, M, B , A , A, O, B, A, M, M, G, O, O, M, G, M, A, G, A , B, G, B, B, O, B, G, G, M, A, A, G, M, M, G, B, A, O, M, O, M</p> <ul style="list-style-type: none"> • M and B • B and G • A and M • B and O
Question 9	<p>Which is the greatest among the following?</p> <ul style="list-style-type: none"> • 90 % of 10 • 6 % of 1000 • 5 % of 1400 • 3 % of 2500

Question 10

A survey was done at a school to find out how the students come to school. Result of the survey is shown in the circle chart.



Which is the most preferred transport for coming to school?

- Local bus
- Walk
- School bus
- Cycle

- x -

Answers

Answer 1	1 : 3
Answer 2	5 : 8
Answer 3	5
Answer 4	$x : y :: y : z$
Answer 5	₹307.20
Answer 6	₹1,39,400
Answer 7	19 : 22
Answer 8	B and G
Answer 9	3 % of 2500
Answer 10	Local bus