



ALTIUS

Logical Reasoning and Quantitative Aptitude

WORKSHEET 3

Question 1	<p>Three angles of a scalene triangle are in the ratio $2 : 3 : 5$. What is the measure of the smallest angle?</p> <ul style="list-style-type: none">• 72°• 108°• 172°• 180°
Question 2	<p>A number consists of two digits. The digit at the units place is 3 times the digit at the tens place. If 36 is added to the number, the digits are reversed. What is the number?</p> <ul style="list-style-type: none">• 13• 26• 39• 62

Question 3	<p>The present ages of Parth and Tushar are in the ratio 5 : 3. If Parth had been 7 years older and Tushar 7 years younger, the age of Parth would have been 3 times the age of Tushar. What is the present age of Tushar?</p> <ul style="list-style-type: none"> • 14 years • 21 years • 35 years • 42 years
Question 4	<p>A shopkeeper frauds people by selling 800 g in place of 1 kg. If he purchases sugar at ₹ 50 per kg and sells at ₹ 60 per kg, then what is his actual profit percentage?</p> <ul style="list-style-type: none"> • 20% • 30% • 40% • 50%
Question 5	<p>54 is to be divided into 2 parts such that the sum of 10 times the first part and 22 times the second part is 780. What is the value of the bigger part?</p> <ul style="list-style-type: none"> • 34 • 20 • 45 • 9

Question 6	<p>A group of 60 students went to the beach. Of the 34 students who brought a hat, 25 were boys. There were 36 boys altogether. How many girls did not bring a hat?</p> <ul style="list-style-type: none"> • 9 • 15 • 24 • 26
Question 7	<p>Inder is sending three parcels. The middle-sized parcel is twice the mass of the smallest parcel and half the mass of the largest parcel. The total mass of the parcels is 840 g. What is the mass of Inder's largest parcel?</p> <ul style="list-style-type: none"> • 360 g • 420 g • 480 g • 560 g
Question 8	<p>What is the product of a mixed fraction and its reciprocal?</p> <ul style="list-style-type: none"> • infinity • nullity • unity • duality

Question 9	<p>If the area and the circumference of a circle are numerically equal, then what is the diameter equal to?</p> <ul style="list-style-type: none">• $\frac{1}{2}$• 1• 2• 4
Question 10	<p>Five identical squares are joined together to form a rectangle. The area of the rectangle is 245 cm^2. What is the perimeter of the rectangle?</p> <ul style="list-style-type: none">• 49 cm• 84 cm• 112 cm• 140 cm

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Answers

Answer 1	72°
Answer 2	26
Answer 3	21 years
Answer 4	50%
Answer 5	34
Answer 6	15
Answer 7	480 g
Answer 8	unity
Answer 9	4
Answer 10	84 cm