



Logical Reasoning and Quantitative Aptitude

WORKSHEET 3

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| <p>Question 1</p> | <p>A cube of surface area 384 cm^2 is melted to make small cubes each of surface area 96 mm^2. What is the number of such cubes formed?</p> <ul style="list-style-type: none"> • 8 • 80 • 800 • 8000 |
| <p>Question 2</p> | <p>The diameter of a garden roller is 1.4 m and its length is 2 m. How much area will it cover in 5 revolutions?</p> <ul style="list-style-type: none"> • 40 m^2 • 44 m^2 • 48 m^2 • 64 m^2 |

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| <p>Question 3</p> | <p>A spaceship enters Earth's atmosphere with an initial speed of 1150 m/s. Before it lands, the spaceship slows to a final speed of 1.5 m/s. What fraction of the initial speed is the final speed?</p> <ul style="list-style-type: none"> • $\frac{3}{2300}$ • $\frac{15}{115}$ • $\frac{115}{15}$ • $\frac{2300}{3}$ |
| <p>Question 4</p> | <p>A thin wire encloses a rectangular area of 135 cm² when its sides are in the ratio of 5 : 3. What will be the area enclosed by the wire, if the same wire is in the shape of a square?</p> <ul style="list-style-type: none"> • 19 cm² • 170 cm² • 144 cm² • 162 cm² |
| <p>Question 5</p> | <p>An ant walked 2 m north. It then walked 4 m east and finally walked 2 m south. How far is the ant from its starting position?</p> <ul style="list-style-type: none"> • 2 m • 4 m • 6 m • 8 m |

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| Question 6 | <p>Himani paints a fence in 12 hours. Pankaj paints 60% faster than Himani. How much time would Pankaj need to paint the same fence?</p> <ul style="list-style-type: none"> • 4 hours and 48 minutes • 7 hours and 12 minutes • 7 hours and 30 minutes • 8 hours |
| Question 7 | <p>In Rohit's family, each boy has as many brothers as sisters and each girl has twice as many brothers as sisters. How many children are there in Rohit's family?</p> <ul style="list-style-type: none"> • 3 • 6 • 7 • 9 |
| Question 8 | <p>Rahul has 3 pens less than Raj. If Raj had 2 more pens, then he would have twice as many pens as Rahul. How many pens does Rahul and Raj have altogether?</p> <ul style="list-style-type: none"> • 5 • 8 • 13 • 15 |

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| Question 9 | <p>A bus company has two different sizes of bus. A small bus can carry 20 people and a large bus can carry 50 people. The ratio of the number of small buses to large buses is 5 : 7. If all the buses together can carry 900 people, then how many small buses does the company have?</p> <ul style="list-style-type: none">• 10• 14• 24• 26 |
| Question 10 | <p>If the second Sunday of a month is on 8th, then on which date will be the second Saturday?</p> <ul style="list-style-type: none">• 1st• 7th• 14th• 15th |

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Answers

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| Answer 1 | 8000 |
| Answer 2 | 44 m ² |
| Answer 3 | $\frac{3}{2300}$ |
| Answer 4 | 144 cm ² |
| Answer 5 | 4 m |
| Answer 6 | 7 hours and 12 minutes |
| Answer 7 | 7 |
| Answer 8 | 13 |
| Answer 9 | 10 |
| Answer 10 | 14 th |