

EduFest Junior, Bavdhan

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Class 5th

GENERAL INSTRUCTIONS

1.	All questions are compulsory.
2.	Read each question carefully before answering.
3.	Show all working / steps clearly. Marks will be awarded for correct method even if the final answer is wrong.
4.	Use ruler and pencil for geometrical constructions and diagrams.
5.	Write neatly. Rough work must be done in the space provided at the end of the paper.
6.	Multiplication of fractions is NOT included in this paper.

SECTION A — FRACTIONS [12 Marks]

A1. Multiple Choice Questions — Circle the correct answer. (1 mark each)

Q1. Which fraction is the LARGEST among the following? [1 Mark]

- (a) $\frac{3}{4}$ (c) $\frac{7}{12}$
(b) $\frac{5}{6}$ (d) $\frac{2}{3}$

Q2. What is $\frac{5}{8} + \frac{3}{8}$? [1 Mark]

- (a) $\frac{8}{16}$ (c) $\frac{8}{8}$
(b) 1 (d) Both b and c

Q3. Which pair of fractions is EQUIVALENT? [1 Mark]

- (a) $\frac{2}{3}$ and $\frac{4}{5}$ (c) $\frac{5}{6}$ and $\frac{10}{14}$
(b) $\frac{3}{4}$ and $\frac{9}{12}$ (d) $\frac{1}{2}$ and $\frac{3}{5}$

Q4. What is $\frac{7}{9} - \frac{4}{9}$? [1 Mark]

- (a) $\frac{3}{0}$ (c) $\frac{3}{9}$
(b) $\frac{11}{9}$ (d) $\frac{1}{3}$

Q5. Riya ate $\frac{2}{5}$ of a pizza and Meera ate $\frac{1}{4}$ of the same pizza. What fraction was eaten altogether? [1 Mark]

- (a) $\frac{3}{9}$ (c) $\frac{3}{20}$
(b) $\frac{13}{20}$ (d) $\frac{7}{9}$

A2. Fill in the Blanks — Write the correct answer in the box. (1 mark each)

Q6. A fraction equivalent to $\frac{3}{4}$ with denominator 16 is: _____ [1 Mark]

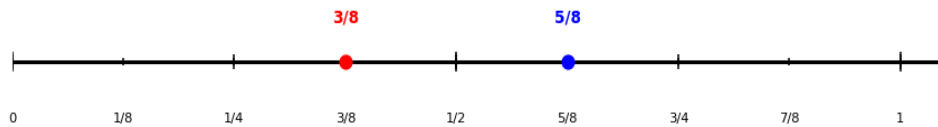
Q7. The simplest form of $\frac{18}{24}$ is: _____ [1 Mark]

Q8. $\frac{3}{8} +$ _____ = 1 (find the missing fraction) [1 Mark]

Q9. Compare using >, < or =: $\frac{5}{6}$ _____ $\frac{7}{9}$ [1 Mark]

Q10. The fraction halfway between $\frac{1}{4}$ and $\frac{3}{4}$ on the number line is: _____ [1 Mark]

Fractions on a Number Line



Q11. Write any TWO fractions that lie between $1/2$ and 1 . Use the number line above to help.
 _____ and _____ [1 Mark]

Q12. In a class of 40 students, $3/8$ are boys. How many students are girls? _____ [1 Mark]

SECTION B — DECIMALS [10 Marks]

Short Answer Questions — Show all working clearly. (2 marks each)

Q13. Arrange the following decimals in DESCENDING order (largest to smallest): [2 Marks]
4.302, 4.32, 4.032, 4.320, 4.3

Q14. A piece of ribbon is 7.85 m long. Asha cuts off 2.376 m. How much ribbon is left? (Show subtraction with carrying.) [2 Marks]

Q15. Convert and calculate: [2 Marks]

- (i) Write $47/1000$ as a decimal: _____
- (ii) Write 6.075 as a fraction in simplest form: _____
- (iii) Express 3 km 47 m in km (as a decimal): _____

Q16. A shopkeeper sells 3 items priced at ₹45.75, ₹128.50 and ₹9.08. A customer pays ₹200. Find the total cost and the change returned. Show full working. [2 Marks]

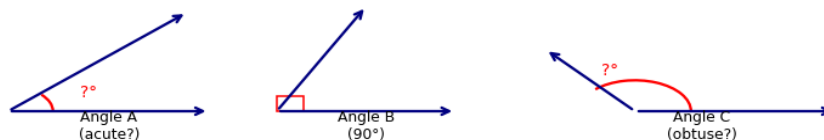
Q17. The temperature on Monday was 28.4°C . On Tuesday it rose by 3.65°C , and on Wednesday it fell by 5.2°C . What was Wednesday's temperature? Show each step. [2 Marks]

SECTION C — BASIC GEOMETRY [10 Marks]

Q18. Look at the angles diagram carefully and answer ALL parts below. [3 marks] [3 Marks]

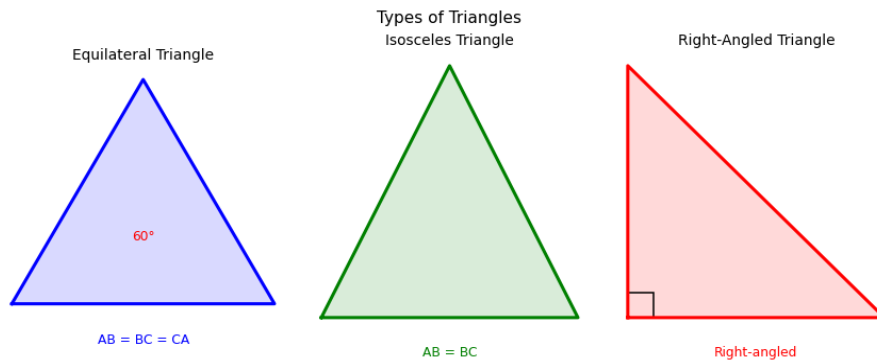
Types of Angles — Identify and Label

Acute $< 90^{\circ}$ Right = 90° Obtuse $> 90^{\circ}$ Straight = 180°



- (i) Angle A appears to measure about 42° . Is it acute, right, obtuse or straight? Give the definition of that type.
- (ii) Angle C appears to measure about 135° . What type of angle is it? What would its SUPPLEMENTARY angle be?
- (iii) Draw your own REFLEX angle (between 180° and 360°) in the box below. Label it with an approximate value

Q19. Triangles — Classify and Calculate. [3 marks] [3 Marks]



- (i) A triangle has sides 5 cm, 5 cm and 7 cm. What type of triangle is it (by sides)? Name the triangle shown in the middle diagram
- (ii) The angles of a triangle are 90° , 35° and _____. Find the missing angle. What type is this triangle by angles?
- (iii) True or False — "An equilateral triangle can also be a right-angled triangle." Justify your answer with a reason

Q20. A quadrilateral ABCD has angles: $\angle A = 95^\circ$, $\angle B = 110^\circ$, $\angle C = 75^\circ$. Find $\angle D$. What is the special property of the sum of angles in any quadrilateral? [2 marks] **[2 Marks]**

Q21. Draw and label a line segment PQ = 6.5 cm. Mark its midpoint M. Then draw a perpendicular at M. Label the perpendicular MN where MN = 4 cm. [2 marks]

SECTION D — MEASUREMENT [8 Marks]

Q22. Convert the following. Show working. [2 marks] **[2 Marks]**

- (i) 3 km 450 m = _____ m
- (ii) 4725 g = _____ kg _____ g
- (iii) 2 hours 35 minutes = _____ minutes
- (iv) 3.750 litres = _____ ml

Q23. Word Problem — Time. [2 marks] **[2 Marks]**

A train departs from Station A at 09:45 and arrives at Station B at 14:20 on the same day.

- (i) How long does the journey take? Give answer in hours and minutes.
- (ii) If there is a 25-minute delay at a halt, what time does it actually reach Station B?

Q24. Word Problem — Mass & Capacity. [2 marks] **[2 Marks]**

A medicine bottle contains 750 ml. A patient takes 2 doses of 45 ml each day. A bag of cement weighs 25.5 kg. A truck carries 48 such bags.

- (i) For how many complete days will one bottle of medicine last?
- (ii) What is the total mass of cement on the truck? Give answer in kg and in tonnes (1 tonne = 1000 kg).

Q25. Challenging Word Problem. [2 marks] **[2 Marks]**

Rajan starts reading at 11:50 a.m. He reads for 1 hour 45 minutes, takes a break of 20 minutes, then reads for another 55 minutes.

- (i) At what time does he finish reading?
- (ii) He reads at a speed of 3 pages every 5 minutes. How many pages does he read in total (excluding break time)

SECTION E — PERIMETER, AREA & VOLUME [12 Marks]**Q26. Perimeter Challenge. [3 marks] [3 Marks]**

A rectangular park has length 85 m and breadth 60 m. A 2 m wide path runs *INSIDE* along all four walls.

- (i) Find the perimeter of the outer boundary of the park.
- (ii) Find the dimensions of the inner garden (excluding the path).
- (iii) Find the area of *ONLY* the path. (Hint: Area of path = Area of park – Area of inner garden)

Q27. Area — Missing Dimension. [3 marks] [3 Marks]

- (i) A square field has area 2025 m². Find its side and perimeter.
- (ii) A rectangular room has area 96 m² and length 12 m. Find its breadth. If tiles of size 40 cm × 40 cm are used to tile the floor, how many tiles are needed?
- (iii) A right-angled triangle has base 24 cm and height 10 cm. Find its area.

Q28. Volume Problems. [3 marks] [3 Marks]

- (i) A cube-shaped box has a side of 9 cm. Find its volume.
- (ii) A cuboid-shaped water tank is 2.5 m long, 1.5 m wide and 1.2 m deep. How many litres of water can it hold? (1 m³ = 1000 litres)
- (iii) 27 small cubes each of side 2 cm are stacked together to form a large cube. What is the side length of the large cube? Find the volume of the large cube.

Q29. Real-Life Application — Multi-step Problem. [3 marks] [3 Marks]

Meena is painting the *FOUR WALLS* and *CEILING* of her room.

Room dimensions: Length = 6 m, Breadth = 4 m, Height = 3 m.

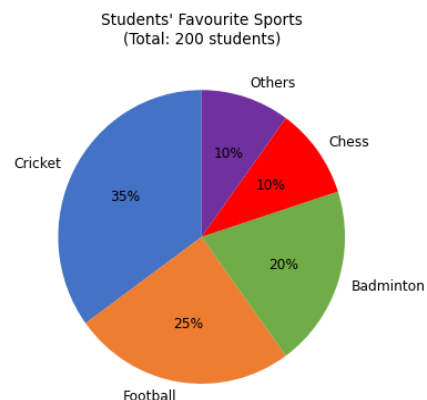
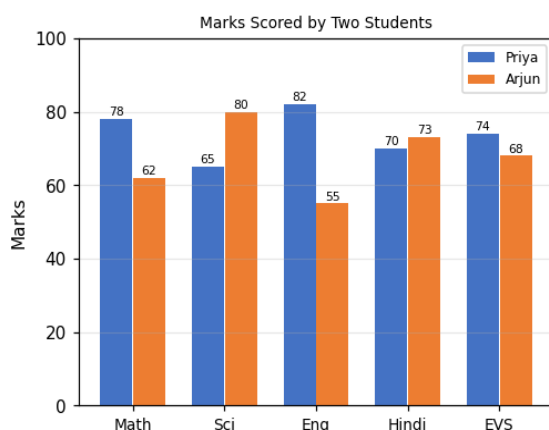
There is 1 door (2 m × 1 m) and 2 windows (1.5 m × 1 m each) — these are *NOT* painted.

Paint costs ₹85 per m² and one tin covers 20 m².

- (i) Find the total area to be painted (walls + ceiling – door – windows).
- (ii) How many tins of paint are needed? (Round UP to whole tins.)
- (iii) What is the total cost of paint?

SECTION F — DATA & GRAPHS [8 Marks]

* Note: Study both graphs carefully before answering.



Q30. Double Bar Graph — Marks Scored by Priya and Arjun. [4 marks] [4 Marks]

- (i) In which subject did Arjun score MORE than Priya? By how many marks
- (ii) Find the TOTAL marks scored by Priya in all 5 subjects. Then find her average marks per subject
- (iii) If passing marks are 60 in each subject, in how many subjects did each student FAIL? Name the subject(s)
- (iv) The school adds a new subject "Computers" where Priya scored 91 and Arjun scored 87. Without drawing a new graph, describe how the graph would change (which bar would be taller, etc.)

Q31. Pie Chart — Favourite Sports. [2 marks] [2 Marks]

Total students surveyed = 200. Use the pie chart above.

- (i) How many students like Cricket? Show your calculation.
- (ii) How many MORE students prefer Football over Chess?
- (iii) What fraction of students like either Badminton or Others? Simplify your answer.

Q32. Data Interpretation & Graph Drawing. [2 marks] [2 Marks]

Number of books read by 6 students in a month: Aarav = 8, Bhavya = 5, Chirag = 10, Deepa = 7, Esha = 6, Farhan = 9

- (i) Find the mean (average) number of books read.
- (ii) Find the median number of books read (arrange in order first).
- (iii) On the grid below, draw a BAR GRAPH for this data. Label axes properly and give the graph a title.