Multiple Choice Questions (MCQs)

(for 3rd Term)

CLASS: VIII

SUBJECT: MATHEMATICS

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Chapter – 10

Question 1) If a varies directly as b and that a=75 when b=15, find the value of a when b=37.5
(a) 115.2 (b) 125.1 (c) 121.5 (d) 112.5

Question 2) 1 fountain pen cost Rs.73.80. What do a dozen of fountain pens cost?
(a) Rs.94.80 (b) Rs.90.84 (c) Rs.98.4 (d) Rs.49.8

Question 3) 153 rails placed end to end in a straight line stretch to 680m. How for will 135 rails stretch.
(a) 700m (b) 500m (c) 800m (d) 600m

If a=4 and b=3 and they are directly proportional then find:

Question 4) a when b=18
(a) 18 (b) 24 (c) 32 (d) 36

Question 5) b when a=5
(a) $18\frac{3}{4}$ (b) $18\frac{2}{4}$ (c) $18\frac{4}{4}$ (d) $18\frac{1}{4}$

Question 6) a when b=28
(a) $36\frac{1}{3}$ (b) $37\frac{1}{3}$ (c) $38\frac{1}{3}$ (d) $39\frac{1}{3}$

Question 7) b when a=16
(a) 9 (b) 12 (c) 15 (d) 6

Question 8) Priya takes 4 hours in walking a distance of 20km. What distance would she cover in 7 hours.
(a) 53km (b) 28km (c) 35km (d) 56km

Question 9) If 15 burners consume 90 cubic metre of gas in 2 hours, how much will 9 burners consume in the same time?
(a) $48m^3$ (b) $54m^3$ (c) $63m^3$ (d) $81m^3$

Question 10) The railway charges Rs.5600 to carry a certain amount of luggage for 350km. What should the charge be to carry the same amount of luggage for 425km?
(a) Rs.6400 (b) Rs.5400 (c) Rs.6700 (d) Rs.6800

Question 11) In inverse variation, more speed
(a) mou time (b) less time (c) same time (d) none

Question 12) In inverse variation, more people.
(a) more time (b) less time (c) same time (d) none

Question 13) If y varies inversely as x and if ywhen x=4, find the value of y when x=3.
(a) 5 (b) 6 (c) 8 (d) 7

If d and m are inversely proportional if d=8 and m=6

Question 14) Find m when d=12
(a) 3 (b) 4 (c) 5 (d) 6

Question 15) Find d when m=24
(a) 2 (b) 3 (c) 4 (d) 5

Question 16) Find m when d=16
(a) 2 (b) 5 (c) 3 (d) 7

Question 17) Find d when m=12
(a) 2 (b) 6 (c) 5 (d) 7

Question 18) 12 men can repair a road in 25 days, how long will 30 men take to do so?
(a) 12 days (b) 8 days (c) 10 days (d) 9 days

Question 19) 16 boxes of fruits, each box containing 20kg, cost Rs.480. What will be the price at this rate of 12 boxes, each containing 25kg?
(a) Rs.540 (b) Rs.450 (c) Rs.504 (d) Rs.405

Question 20) How many days would it take 67 men to build a wall which 134 men can build in 3 weeks?
(a) 6 weeks (b) 7 weeks (c) 8 weeks (d) 4 weeks

Question 21) A car can complete a certain journey in 12 hours if it travels at 65km.hr How much time will it take if it travels at 78km/hr?
(a) 5 hours (b) 6 hours (c) 10 hours (d) 12 hours

Question 22) If 25 animals eat 5 bags of corn in 12 days, how much will 10 animals eat in 18 days?
(a) 2 bags (b) 3 bags (c) 7 bags (d) 4 bags

Question 23) 25 horses eat 5 bags of corn in 12 days. How much will 10 horses eat in 18 days?
(a) 6 (b) 4 (c) 3 (d) 5

Question 24) If light can travel 31 times around the world in 4 seconds, how many times can it circle the world in 10 seconds.
(a) 20 times (b) $77\frac{1}{2}$ times (c) 80 times (d) $16\frac{1}{2}$ times

Question 25) If 6 horses can finish eating the grass of a field in 10 days, in how many days will 4 horses finish eating it?
(a) 15 (b) 12 (c) 20 (d) 8

Chapter – 11

Question 1) If an inlet fills up a cistern in n hours, then in 1 hour it will fill
(a) cistern (b) 1 cistern (c) $\frac{1}{n}$ cistern (d) none

Question 2) If an outlet empties a full cistern in m hours, then in 1 hour it will empty
(a) 3 cistern (b) 1 cistern (c) $\frac{1}{m}$ cistern (d) none

Question 3) The work done by an inlet is always positive whereas the work done by the outlet is always
(a) negative (b) positive (c) neutral (d) none

Question 4) An outlet pipe can empty $\frac{5}{6}$ of the cistern in 20 minutes. In 9 minutes, what part of the cistern will be emptied.
(a) $\frac{4}{12}$ (b) $\frac{5}{12}$ (c) $\frac{2}{8}$ (d) $\frac{3}{8}$

Question 5) A can copy 80 pages in 20 hours, A & B together can copy 135 pages in 27 hours. In what time can B copy 48 gases?
(a) 24 hours (b) 48 hours (c) 72 hours (d) 36 hours

Question 6) A can do $\frac{3}{4}$ of the work in 12 days. In how many days can he complete $\frac{1}{8}$ of the work.
(a) 5 days (b) 4 days (c) 3 days (d) 2 days

Question 7) A tyre has two punctures. The first puncture alone would have made the tyre flat in 9 minutes and the second alone would have done it in 6 minutes. If air leaks out at constant rate, how long does it take both the punctures together to make it flat?
(a) $1\frac{1}{2}$ minutes (b) $3\frac{1}{2}$ min (c) $3\frac{3}{5}$ min (d) $4\frac{1}{4}$ min

Question 8) A can do a piece of work in 9 days while B can do it in 6 days, With the help of C, they finish the work in 3 days. Then, C alone can do the work in.
(a) 18 days (b) 20 days (c) 24 days (d) 12 days

Question 9) A tap can empty a tank in 45 minutes. A second tap can empty it in 30 minutes. If both the taps operate simultaneously, how much time is needed to empty the tank.
(a) 18 min (b) 20 min (c) 40 min (d) 45 min

Question 10) A can complete a work in 10 days and b in 5 days How much time will both take to complete the work
(a) $2\frac{1}{3}$ days (b) $4\frac{1}{3}$ days (c) $5\frac{2}{3}$ days (d) $3\frac{1}{3}$ days

Question 11) 7 men can complete a work in 28 days. In how many days will 14 men do the same work.
(a) 14 days (b) 16 days (c) 18 days (d) 12 days

Question 12) Montu can complete a work in 24 days. How much work will he finish in 8 days?
(a) $\frac{1}{2}$ work (b) $\frac{1}{6}$ work (c) $\frac{1}{3}$ work (d) $\frac{1}{4}$ work

Question 13) Two pieces can fill a cistern separately in 10 hours and 15 hours. Together they can fill the cistern in
(a) 8 hours (b) 6 hours (c) 4 hours (d) 2 hours

Question 14) The number of men working to complete a piece of work and the time taken is an example of
(a) direct variation (b) inverse variation (c) both (d) none

Question 15) If the cost of a metre of cloth is Rs.x, then the cost of b metres of cloth is Rs.
(a) Rs. $\frac{bx}{a}$ (b) Rs. $\frac{ax}{b}$ (c) Rs.abx (d) Rs. $\frac{a}{bx}$

Question 16) Rajat can complete $\frac{1}{5}$ of the work in 3 days. He can complete the whole work in _____ days.
(a) 18 days (b) 21 days (c) 12 days (d) 15 days

Question 17) If an inlet pipe can fill a tank in m hours and an outlet pipe can empty it in x hours, then the part of the tank filled in 1 hour is
(a) $\frac{1}{m} + \frac{1}{n}$ (b) $\frac{1}{m} - \frac{1}{n}$ (c) $\frac{1}{m} \times \frac{1}{n}$ (d) $\frac{1}{m} \div \frac{1}{n}$

Question 18) If 12 pumps can empty a reservoir in 20 hours, then the time required by 40 such pumps to empty the same reservoir is _____ hours.
(a) 6 (b) 8 (c) 4 (d) 2

Question 19) X & Y together finish a work in 8 days. If Y alone can do it in 24 days, then Y alone will be able to do it in
(a) 16 days (b) 14 days (c) 12 days (d) 10 days

Question 20) A can do a piece of work in 25 days and B can do the same work in 30 days they work together 5 days. How much work is still left
(a) $\frac{11}{30}$ (b) $\frac{12}{30}$ (c) $\frac{19}{30}$ (d) $\frac{18}{30}$

Question 21) A Can finish a work in 24 days, B in 9 days and C in 12 days. B and C start the work but are forced to leave after 3 days. The time taken by A to complete the remaining work is
(a) 8 days (b) 12 days (c) 7 days (d) 15 days

Question 22) A tap can fill a cistern in 8 hours and another tap can empty it in 16 hours and another tap can empty it in 16 hours. If both the taps are open, the time taken to fill the tank
(a) 8 hours (b) 10 hours (c) 16 hours (d) 24 hours

Question 23) A can do $\frac{1}{6}$ of the work in 5 days and B can do $\frac{2}{5}$ of the work in 8 days. In how many days can both A & B together do the work
(a) 12 days (b) 13 days (c) 15 days (d) 8 days

Question 24) A and B can do a job together in 12 days. If A is 2 times as efficient as B, then how many days shall B alone take to complete the work?
(a) 12 days (b) 24 days (c) 36 days (d) 48 days

Question 25) B and C can complete a piece of work in 12 days. C and A can do it in 8 days and A and B can also complete it in 8 days. How much time will A alone take to complete the work?
(a) 16 days (b) 9 days (c) 6 days (d) 12 days

Chapter – 21

Question 1) The part of a solid shape where three faces meet is called a
(a) vertex (b) edge (c) face (d) diagonal

Question 2) A pyramid is named according to its
(a) face (b) base (c) vertex (d) no. of sides

Question 3) A octahedron has _____ faces.
(a) six (b) seven (c) eight (d) nine

Question 4) If a pyramid has nine faces, it has _____ vertices
(a) nine (b) seven (c) six (d) five

Question 5) The top view of a triangular prism is a _____
(a) square (b) rectangle (c) sphere (d) triangle

Question 6) All the views of a sphere are
(a) same (b) different (c) opposite (d) none

Question 7) A triangular prism has
(a) 6 faces (b) 7 faces (c) 4 faces (d) 5 faces

Question 8) Cone has circular faces
(a) 1 (b) 2 (c) 3 (d) none

Question 9) The common name of a square prism is
(a) cuboid (b) cube (c) pyramid (d) polygon

Question 10) A rectangular pyramid has _____ faces
(a) 6 (b) 7 (c) 5 (d) 4

Question 11) A hexagonal pyramid has _____ faces
(a) 10 (b) 18 (c) 12 (d) 15

Question 12) A solid figure with only one vertex is a
(a) square pyramid (b) tetrahedron (c) cone (d) cylinder

Question 13) If the number of faces and vertices in a solid are 7 and 10 respectively, the number of edges are
(a) 17 (b) 15 (c) 19 (d) 13

Question 14) Solids have _____ dimensions
(a) 2 (b) 4 (c) 3 (d) 1

Question 15) Euler's formula is
(a) F-V+E=2 (b) F-2=-E+V (c) F-2=-V-E (d) F-E+V=2

Question 16) Manya is building a prism using straws and balls of clay. How many straws does she need to uild a pentagonal prism?
(a) 18 (b) 15 (c) 20 (d) 13

Question 17) The solid that have four faces is
(a) tetrahedron (b) cylinder (c) cube (d) cuboid

Question 18) The solid that has 1 curved surface is
(a) tetrahedron (b) cylinder (c) cuboid (d) cube

Question 19) The solid that has 6 faces is
(a) cuboid (b) tetrahedron (c) cylinder (d) none

Question 20) The solid with 8 triangular faces
(a) Regular Octahedron (b) Regular Hexagonal (c) Regular Pentagon (d) Regular Nonagon

Chapter – 22

Question 1) The coordinate of point (4,6) reflected in x-axis is.
(a) (4,6) (b) (-4,6) (c) (4,-6) (d) (-4,-6)

Question 2) The co-ordinates of point (-3,8) when reflected in x-axis is
(a) (-3,8) (b) 98,3) (c) (-3,-8) (d) (3,8)

Question 3) The co-ordinates of point (-2,-7) reflected in x-axis is
(a) (-2,7) (b) (-2,-7) (c) (2,-7) (d) (2,7)

Question 4) The co-ordinates of the point (3,5) reflected in y-axis
(a) (3,-5) (b) (-3,-5) (c) (-3,5) (d) (-5,3)

Question 5) The co-ordinates of the points (-8,-6) when reflected in y axis is
(a) (-8,6) (b) (8,-6) (c) (8,6) (d) (-8,-6)

Question 6) The co-ordinates of the points (-2,11) reflected in y axis.
(a) (11,-2) (b) (-2,11) (c) (2,-11) (d) (2,11)

Question 7) The co-ordinates of the point (3,7) when reflected in the origin is.
(a) (-3,7) (b) (3,-7) (c) (-3,-7) (d) (3,7)

Question 8) The co-ordinates of the point (-4,8) when reflected in the origin
(a) (-4,-8) (b) (-8,-4) (c) (4,-8) (d) (-4,-8)

Question 9) The co-ordinates of points (-11,-9) when reflected in the origin I.D.
(a) (11,-9) (b) (-11,9) (c) (-9,-11) (d) (11,9)

Question 10) The order of rotational symmetry of a square is
(a) 1 (b) 2 (c) 3 (d) 4

Question 11) The order of rotational symmetry of a pentagon is
(a) 2 (b) 3 (c) 4 (d) 5

Question 12) The order of rotational symmetry of a hexagon is
(a) 6 (b) 5 (c) 8 (d) 4

Question 13) The order of rotational symmetry of a octagon is
(a) 5 (b) 4 (c) 6 (d) 8

Question 14) The order of rotational symmetry of circle is
(a) 1 (b) 2 (c) ten (d) infinite

Question 15) The angle of rotation of figure having order of rotational symmetry as 10 is
(a) 36^0 (b) 72^0 (c) 24^0 (d) 48^0

Question 16) The angle of rotation of figure having order of rotational symmetry as 8 is
(a) 60^0 (b) 45^0 (c) 75^0 (d) 90^0

Question 17) The angle of rotation of a figure having order of rotational symmetry as 12
(a) 20^0 (b) 40^0 (c) 60^0 (d) 30^0

Question 18) The quadrilateral that has rotational symmetry but not line symmetry
(a) kite (b) trapezium (c) Rhombus (d) Parallelogram

Question 19) What is the order of rotational symmetry of a rhombus.
(a) 8 (b) 4 (c) 2 (d) none

Question 20) The reflection of point (-4,5) in the y-axis followed by a reflection in the origin is
(a) (4,-5) (b) (-4,-5) (c) (4,5) (d) (-4,5)

Question 21) The co-ordinates of point E(0,-3) when reflected in the origin is
(a) (-3,0) (b) (3,0) (c) (0,3) (d) (0,-3)

Question 22) The co-ordinates of point (0,-2) when reflected in y-axis is
(a) (0,-2) (b) (-2,0) (c) (2,0) (d) (0,2)

Question 23) The co-ordinates of points (-2,11) when reflected in y-axis is
(a) (11,-2) (b) (11,2) (c) (2,-11) (d) (2,11)

Question 24) The co-ordinates of points (10,-4) when reflected in x-axis
(a) (10,4) (b) (-4,10) (c) (10,4) (d) none

Question 25) The co-ordinates of points (-5,0) when reflected in x-axis
(a) (5,0) (b) (-5,0) (c) (0,5) (d) (0,-5)

Chapter – 23

Question 1) The point where the x-axis and y-axis intersect is called the.
(a) Origin (b) ordinate (c) abscissa (d) ordered pair

Question 2) The point (2,7) lies in the _____ quadrant.
(a) 2^{nd} (b) 1^{st} (c) 3^{rd} (d) 4^{th}

Question 3) The point (1,-3) lies in the _____ quadrant.
(a) 1^{st} (b) 2^{nd} (c) 3^{rd} (d) 4^{th}

Question 4) The graph of x=1 is a line parallel to the _____ axis
(a) x-axis (b) y-axis (c) z-axis (d) none

Question 5) The graph of y=1 is a line parallel to the _____ axis.
(a) x-axis (b) y-axis (c) x-axis (d) none

Question 6) The equation ax+by+c = 0 is called a _____ equation.
(a) quadratic (b) linear (c) cubic (d) none

Question 7) The graph of 2x = 1 is a line parallel to the _____ axis.
(a) x-axis (b) y-axis (c) z-axis (d) none

Question 8) (0,y) are the co-ordinates of a point lying on which of the following.
(a) origin (b) x-axis (c) y-axis (d) none

Question 9) The point (3,2) is nearer to
(a) x-axis (b) y-axis (c) origin (d) none

Question 10) The point (-5,6) is nearer to
(a) x-axis (b) y-axis (c) origin (d) none

Question 11) The point (-3,-3) is
(a) Nearer to x-axis (b) near to y-axis (c) origin (d) equal from x & y-axis

Question 12) The point (0,4) lies on which of the following
(a) x-axis (b) y-axis (c) origin (d) none

Question 13) The point (-3,0) lies on which of the following
(a) x-axis (b) y-axis (c) origin (d) none

Question 14) The points (-3,2) and (2,3) represent
(a) different points (b) same points (c) the origin (d) none

Question 15) Which of the following points lies on y-axis
(a) (-4,0) (b) (4,0) (c) (0,-4) (d) (-4,4)

Question 16) The point (2,5) lies in _____ quadrant
(a) 1^{st} (b) 2^{nd} (c) 3^{rd} (d) 4^{th}

Question 17) The point (3,-5) lies in _____ quadrant
(a) 1^{st} (b) 2^{nd} (c) 3^{rd} (d) 4^{th}

Question 18) The point (4,-8) lies in _____ quadrant
(a) 1^{st} (b) 2^{nd} (c) 3^{rd} (d) 4^{th}

Question 19) The point (-3,-4) lies in _____ quadrant
(a) 1^{st} (b) 2^{nd} (c) 3^{rd} (d) 4^{th}

Question 20) The point (5,7) lies in _____ quadrant
(a) 1^{st} (b) 2^{nd} (c) 3^{rd} (d) 4^{th}

Question 21) The point (11,0) lies on
(a) x-axis (b) y-axis (c) origin (d) none

Question 22) The point (0,7) lies on
(a) x-axis (b) y-axis (c) origin (d) none

Question 23) The point (9,0) lies on
(a) x-axis (b) y-axis (c) origin (d) none

Question 24) The point (0,0) lies on
(a) x-axis (b) y-axis (c) origin (d) none

Question 25) The point (-7,-5) lies in _____ quadrant
(a) 1^{st} (b) 2^{nd} (c) 3^{rd} (d) 4^{th}

Chapter – 24

Question 1) A line segment joining the centre of the circle with any point on the circle is called
(a) radius (b) diameter (c) chord (d) none

Question 2) A line segment joining any two points on a circle is called
(a) radius (b) diameter (c) chord (d) none

Question 3) A chord that passes through the centre of a circle is called.
(a) radius (b) diameter (c) chord (d) none

Question 4) A line containing any two points on circle
(a) radius (b) diameter (c) chord (d) secant

Question 5) The distance right around the circle is called its.
(a) sector (b) segment (c) circumference (d) none

Question 6) A diameter divides a circle into _____ parts.
(a) one (b) two (c) three (d) four

Question 7) A curved line which is a part of the circumference is
(a) are (b) radius (c) segment (d) none

Question 8) The region bounded by an arc of the circle and the two radii to the end points of the arc is
(a) segment (b) sector (c) arc (d) none

Question 9) Angles in the same segment of circle are
(a) equal (b) different (c) double (d) none

Question 10) Angle in a semicircle is
(a) 45^0 (b) 90^0 (c) 135^0 (d) 180^0

Question 11) If the vertices of a quadrilateral lie on a circle, then the quadrilateral is
(a) cyclic (b) regular (c) parallelogram (d) none

Question 12) The sum of opposite angles of a cyclic quadrilateral is
(a) 45^0 (b) 90^0 (c) 135^0 (d) 180^0

Question 13) If the side of a cyclic quadrilateral is produced, the exterior angle so formed is equal to its
(a) interior opposite angle (b) adjacent angle (c) corresponding angle (d) none

Question 14) The opposite angles of a cyclic quadrilateral are.
(a) complementary (b) supplementary (c) acute (d) none

Question 15) Circle having the same centre are
(a) concentric (b) circum circle (c) In circle (d) none

Question 16) The perpendicular form the centre of the circle to the _____ bisects the chord
(a) secant (b) chord (c) radius (d) none

Question 17) The perpendicular bisector of a chord passes through the
(a) centre (b) diameter (c) tangent (d) none

Question 18) If the sum of opposite angles of a quadrilateral is 180^0, then it is a _____ quadrilateral
(a) cyclic (b) parallelogram (c) kixe (d) none

Question 19) The line joining the centre of a circle to the mid-point of the chord is _____ to the chord.
(a) perpendicular (b) parallel (c) Equal (d) none

Question 20) Angle in a semi-circle is a _____ angle
(a) straight (b) reflex (c) right (d) none

Question 21) Angle in the _____ of a circle are equal
(a) opposite segment (b) same segment (c) centre (d) none

Question 22) The angle at the centre is _____ the angle at circumference
(a) half (b) double (c) equal (d) none

Question 23) If the angle at the centre is 120^0, then the angle at circumference will be
(a) 50^0 (b) 120^0 (c) 240^0 (d) 60^0

Question 24) If the angle at circumference is 25^0 the angle at centre will be
(a) 50^0 (b) 25^0 (c) 125^0 (d) 75^0

Question 25) The angle at circumference is _____ the angle at centre
(a) equal (b) double (c) half (d) none

Chapter – 27

Question 1) Volume of cuboid is
(a) $\frac{lh}{b}$ (b) lbh (c) $\frac{hl}{b}$ (d) l-b-h

Question 2) Diagonal of cuboid is
(a) $l^2+b^2+h^2$ (b) $l^2\times b^2\times h^2$ (c) $\sqrt{l^2+b^2+h^2}$ (d) none

Question 3) Total surface are a of cuboid
(a) lbh (b) 2(l+b)×h (c) 2(lb+bh+hl) (d) lbh

Question 4) Area of 4 walls is
(a) lbh (b) 2(l+b)×h (c) 2(lb+bh+hl) (d) lbh

Question 5) Volume of cube is
(a) $(side)^3$ (b) $(side)^2$ (c) $6\times(side)^2$ (d) none

Question 6) Diagonal of cube is
(a) Edge $\sqrt{3}$ (b) Edge $\sqrt{2}$ (c) Edge $\sqrt{5}$ (d) none

Question 7) Total surface Area of cube
(a) $(Side)^2$ (b) $(side)^3$ (c) $6\times(side)^2$ (d) $4\times(side)^2$

Question 8) Lateral Surface Area of cube.
(a) $(side)^2$ (b) $(side)^3$ (c) $6\times(side)^2$ (d) $4\times(side)^2$

Question 9) Volume of cylinder is
(a) πrh (b) πr^2h (c) πr^3h (d) $2\pi rh$

Question 10) Total surface Area of cylinder is
(a) $2\pi rh$ (b) πr^2 (c) $2\pi r(h+r)$ (d) $\frac{1}{3}\pi r3h$

Question 11) The curved surface area of cylinder of height 8 cm is $176cm^2$ find the radius of the base.
(a) 2.5cm (b) 4.5cm (c) 7cm (d) 3.5cm

Question 12) The volume of a cylinder whose base radius is 8cm and height is 14cm.
(a) $2418cm^3$ (b) $2516cm^3$ (c) $2816cm^3$ (d) $2916cm^3$

Question 13) The length, breadth & height of cuboid is 15cm, 10cm and 12cm. Find the volume.
(a) $1600cm^3$ (b) $3600cm^3$ (c) $1200cm^3$ (d) $1800cm^3$

Question 14) The surface area of the cube of side 6cm is
(a) $216cm^2$ (b) $312cm^2$ (c) $512cm^2$ (d) $256cm^2$

Question 15) The volume of a cube is $64cm^3$. Its total surface area is
(a) $48cm^2$ (b) $24cm^2$ (c) $26cm^2$ (d) $96cm^2$

Question 16) Ratio of the surface areas of two cubes is 16:25. What is the ratio of their volumes ?
(a) 64:128 (b) 64:125 (c) 125:64 (d) 27:64

Question 17) A container is 100cm long, 80cm wide and 60cm high. How many litres of water can it hold?
(a) 540 (b) 320 (c) 480 (d) 360

Question 18) What is the length of a cuboid of volume 56cm^3, if its breadth is 4cm and height is 2cm?
(a) 7cm (b) 8cm (c) 9cm (d) 14cm

Question 19) Find the height of a right circular cylinder of volume 28cm^3, if its radius is 2cm
(a) 14cm (b) 3.5cm (c) 21cm (d) 7cm

Question 20) If the diagonal of a cube is 12cm, then its volume is.
(a) 64 $\sqrt{3}$ cm^3 (b) 81cm^3 (c) 192 $\sqrt{3}$ cm^3 (d) 3 $\sqrt{2}$cm^3

Question 21) The areas of three consecutive faces of a cuboid are 12cm^2, 20cm^2 and 15cm^2. Volume of the cuboid (in cm^3) is.
(a) 3600cm^3 (b) 100cm^3 (c) 80cm^3 (d) 60cm^3

Question 22) The radii of the bases of two cylinders are in the ratio 3:5 and their heights are in the ratio 2:3. The ratio of their curved surfaces will be.
(a) 2:5 (b) 2:3 (c) 3:5 (d) 5:3

Question 23) The circumference of the base of a circular cylinder is 6πcm. The height of the cylinder is equal to the diameter of the base. Find volume of cylinder.
(a) 54πcm^3 (b) 36πcm^3 (c) 0.054πcm^3 (d) 0.036πcm^3

Question 24) The lateral surface area of a cube is 2304cm^2 its volume is
(a) 13824cm^2 (b) 15724cm^2 (c) 17814cm^2 (d) 12714cm^2

Question 25) The lateral surface are a of a cube is 2304cm^2 its total surface area is
(a) 2896cm^2 (b) 5634cm^2 (c) 5760cm^2 (d) 3456cm^2

Chapter – 28

The heights of 10 girls were measured in cm and the results were as follows:
143, 148, 135, 150, 128, 139, 149, 146, 151, 132

Question 1) What is the height of tallest girl.
(a) 148 (b) 151 (c) 149 (d) 150

Question 2) What is the height of shortest girl
(a) 128 (b) 135 (c) 139 (d) 126

Question 3) What is the range of the data.
(a) 22cm (b) 23cm (c) 21cm (d) 20cm

Question 4) Find the mean height.
(a) 141.2cm (b) 114.2cm (c) 112.4cm (d) 142.1cm

Question 5) How many girls are there whose heights are less than the mean height.
(a) 2 (b) 3 (c) 4 (d) 5

Question 6) How many girls are less than of height 140.
(a) 2 (b) 3 (c) 4 (d) 5

Question 7) How many girls are more than of height 150.
(a) 1 (b) 2 (c) 3 (d) 4

Question 8) How many girls lie between height 130 to 140cm
(a) 3 (b) 4 (c) 2 (d) 5

Question 9) Find the arithmetic mean of the numbers 1, 6, 0, -2, 4, 7, 5 is
(a) $\frac{25}{7}$ (b) $\frac{21}{7}$ (c) $\frac{22}{7}$ (d) $\frac{19}{7}$

Observe the following table and answer the following

Marks	0-10	10-20	20-30	30-40	40-50	50-60	Total
Number of students	12	18	27	20	17	6	100

Question 10) What is the class mark 0-10 group.
(a) 5 (b) 6 (c) 15 (d) 25

Question 11) What is the frequency of 20-30 group.
(a) 6 (b) 17 (c) 20 (d) 27

Question 12) What is the frequency of 30-40 group
(a) 17 (b) 20 (c) 6 (d) 12

Question 13) What is the frequency of 50-60 group
(a) 6 (b) 12 (c) 18 (d) 20

Question 14) What is the class mark of 40-50 group
(a) 55 (b) 45 (c) 35 (d) 50

Question 15) What is the arithmetic mean.
(a) 26 (b) 28 (c) 30 (d) 32

For the given set of data :
4, 4, 8, 11, 12, 16, 22

Question 16) The mean is.
(a) 11 (b) 12 (c) 13 (d) 10

Question 17) The median is
(a) 10 (b) 11 (c) 12 (d) 11

Question 18) The mode is
(a) 6 (b) 4 (c) 5 (d) 7

Question 19) The _____ of a data set is the sum of the values divided by the number of values.
(a) median (b) mean (c) mode (d) array

Question 20) The number in the middle when the data is in an ordered list is the
(a) median (b) mean (c) mode (d) array

Question 21) The mode of the data set 3, 8, 9, 10, 4, 3, 7, 8, 11, 12, 8 is
(a) 12 (b) 11 (c) 8 (d) 9

Question 22) The number of times each score or measure occurs in a set is called its _____
(a) mode (b) frequency (c) median (d) data

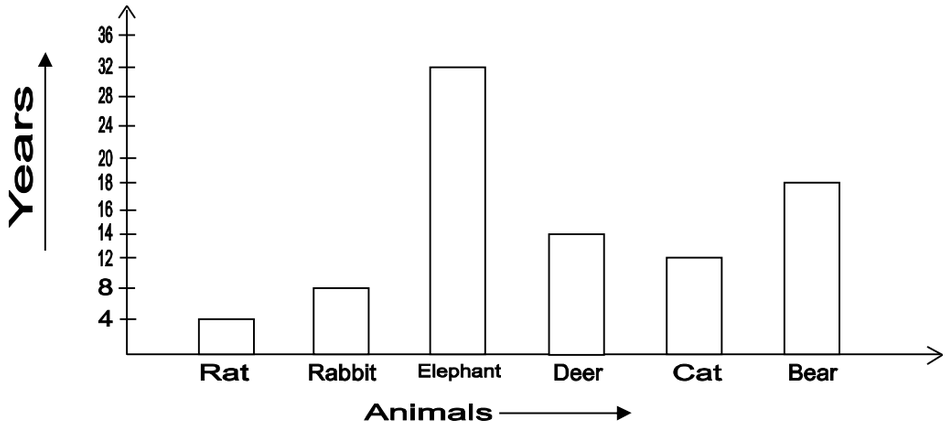
Question 23) The mid-value of a class interval is 42. If the class size is 10, then the upper and lower limits of the c class are
(a) 47,37 (b) 37,47 (c) 37.5, 47.5 (d) 47.5, 37.5

Question 24) Out of 100 numbers 20 were 4s, 40 were 5s, 3o were 6s and the remaining were 7s. The arithmetic mean of the number is.
(a) 5.3 (b) 5.4 (c) 6.1 (d) 6.5

Question 25) The median of 0, 2, 2, 2, -3, 5, -1, 5, 5, -3, 6, 6, 5, 6 is
(a) 5 (b) -1.5 (c) 2 (d) 3.5

Chapter – 29

Give below is a bar graph showing the approximate life spans of some animals. Read the bar graph and answer the questions.



Question 1) How many years does 1 unit length represent.
(a) 2 (b) 4 (c) 6 (d) 8

Question 2) What is the approximate life span of rabbit
(a) 8 (b) 10 (c) 12 (d) 16

Question 3) What is the approximate life span of elephant.
(a) 28 (b) 30 (c) 32 (d) 34

Question 4) What is the approximate life span of bear
(a) 16 (b) 18 (c) 20 (d) 24

Question 5) What is the approximate life span of deer
(a) 12 (b) 14 (c) 16 (d) 20

Question 6) What is the ratio of the life span of the elephant and rat.
(a) 4:2 (b) 32:8 (c) 4:1 (d) 8:1

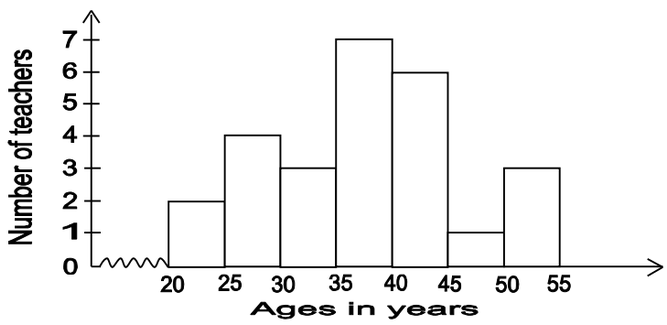
Question 7) The elephant's life is how many years longer than rabbit's?
(a) 26 (b) 28 (c) 24 (d) 22

Question 8) Who got the least life span
(a) Rat (b) cat (c) Rabbit (d) Bear

Question 9) Which animal has the highest life span
(a) Rat (b) cat (c) Elephant (d) Bear

Question 10) The Rabbit's life span is how many years longer than the deer's?
(a) 6 (b) 4 (c) 8 (d) 2

Study the given histogram and answer the questions.



Question 11) What is the number of teachers in the oldest age group in school.
(a) 2 (b) 4 (c) 6 (d) 3

Question 12) What is the number of teachers in the youngest age group in the school
(a) 3 (b) 2 (c) 7 (d) 4

Question 13) In which age group, the number of teachers is the least
(a) 45-50 (b) 50-55 (c) 40-45 (d) 35-40

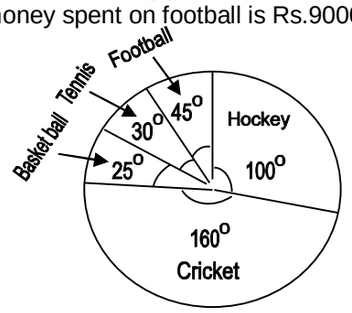
Question 14) In which age group, the number of teachers is the maximum
(a) 30-35 (b) 35-40 (c) 40-45 (d) 45-50

Question 15) What is the class size of each class interval
(a) 10 (b) 4 (c) 5 (d) 6

Question 16) How many teachers are below 30 years in age.
(a) 4 (b) 5 (c) 6 (d) 8

Question 17) How many teachers are there between 35-40 group
(a) 2 (b) 4 (c) 6 (d) 7

Observe the following pie-chart and answer the questions.
Give money spent on football is Rs.9000.



Question 18) The total amount spent on sports is
(a) Rs.20000 (b) Rs.72000 (c) Rs.36000 (d) Rs.24000

Question 19) How much amount is spent on hockey.
(a) Rs.32000 (b) Rs.24000 (c) Rs.2000 (d) Rs.20000

Question 20) How much amount is spent on cricket.
(a) Rs.32,000 (b) Rs.24,000 (c) Rs.20,000 (d) Rs.22,000

Question 21) Amount spent on both hockey and cricket
(a) Rs.42,000 (b) Rs.52,000 (c) Rs.62,000 (d) Rs.32,000

Question 22) Amount spent on both football and cricket.
(a) Rs.21,000 (b) Rs.31,000 (c) Rs.41,000 (d) Rs.51,000

Question 23) Amount spent on both football and cricket.
(a) Rs.2,000 (b) Rs.4,000 (c) Rs.5,000 (d) Rs.6,000

Question 24) Amount spent on basketball.
(a) Rs.4,000 (b) Rs.5,000 (c) Rs.6,000 (d) Rs.8,000

Question 25) Amount spent on both tennis and basketball.
(a) Rs.11,000 (b) Rs.22,000 (c) Rs.12,000 (d) Rs.9,000