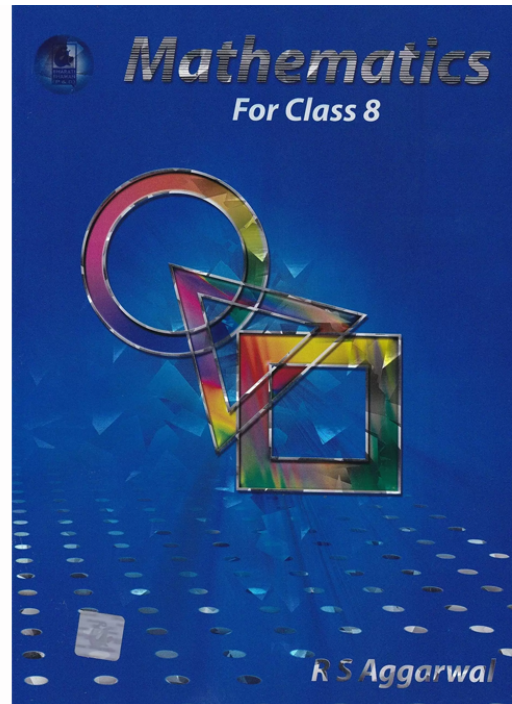


RS Aggarwal Solutions for Class 8

Maths Chapter 23–Pie Charts

Class 8 - Chapter 23 Pie Charts



For any clarifications or questions you can write to info@indcareer.com

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Class 8: Maths Chapter 23 solutions. Complete Class 8 Maths Chapter 23 Notes.

RS Aggarwal Solutions for Class 8 Maths Chapter 23–Pie Charts

RS Aggarwal 8th Maths Chapter 23, Class 8 Maths Chapter 23 solutions

Ex 23A

Question 1.

Solution:

Total expenditure = Rs. 4000 + 5400 + 2800 + 1800 + 400 = Rs. 14400

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Item	Expenditure	Central angle
Rent	8000	$\frac{8000}{28800} \times 360^\circ = 100^\circ$
Food	10800	$\frac{10800}{28800} \times 360^\circ = 135^\circ$
Clothing	5600	$\frac{5600}{28800} \times 360^\circ = 70^\circ$
Education	3600	$\frac{3600}{28800} \times 360^\circ = 45^\circ$
Savings	800	$\frac{800}{28800} \times 360^\circ = 10^\circ$
Total	28800	360°

Construction of pie chart :

1. Draw a circle of any convenient radius.
2. Draw a horizontal radius.
3. Starting from this radius, draw sectors of central angle 100° , 135° , 70° , 45° and 10° respectively.
4. Shade these sectors with different colors or designs as shown in the figure.

This is the required pie chart.

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Question 2.

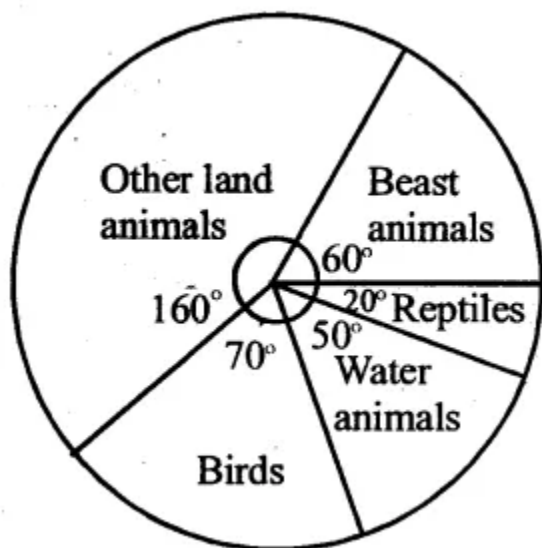
Solution:

Total number of creatures 900

Creatures	No. of creatures	Central angle
Beast animals	150	$\frac{150}{900} \times 360^\circ = 60^\circ$
Other land animals	400	$\frac{400}{900} \times 360^\circ = 160^\circ$
Birds	175	$\frac{175}{900} \times 360^\circ = 70^\circ$
Water animals	125	$\frac{125}{900} \times 360^\circ = 50^\circ$
Reptiles	50	$\frac{50}{900} \times 360^\circ = 20^\circ$
Total	900	360°

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- (i) Draw a circle with a suitable radius.
- (ii) Draw a horizontal radius.
- (iii) Starting from this radius, draw sectors whose central angles are 60° , 160° , 70° , 50° and 20° respectively.
- (iv) Now shade each sector with different colours or designs as shown in the figure.



Question 3.

Solution:

$$\text{Total number of students} = 350 + 245 + 210 + 175 + 280 = 1260$$

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Transport	No. of students	Central angle
School bus	350	$\frac{350}{1260} \times 360^\circ = 100^\circ$
Private bus	245	$\frac{245}{1260} \times 360^\circ = 70^\circ$
Bicycle	210	$\frac{210}{1260} \times 360^\circ = 60^\circ$
Rickshaw	175	$\frac{175}{1260} \times 360^\circ = 50^\circ$
On foot	280	$\frac{280}{1260} \times 360^\circ = 80^\circ$
Total	1260	360°

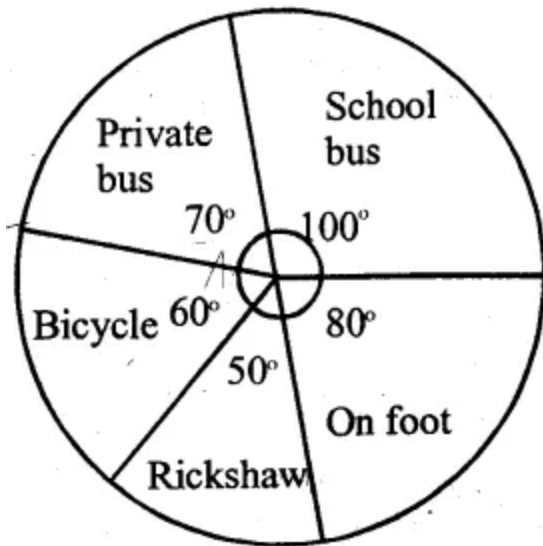
(i) Draw a circle with a suitable radius.

(ii) Draw a horizontal radius.

(iii) Starting from this radius draw sectors whose central angles are 100° , 70° , 60° , 50° and 80° respectively.

(iv) Now shade each sector with different colours or designs as shown in the figure.

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Question 4.

Solution:

Activity	Number of hours	Central angle
School	7	$\frac{7}{24} \times 360^\circ = 105^\circ$
Homework	4	$\frac{4}{24} \times 360^\circ = 60^\circ$
Play	2	$\frac{2}{24} \times 360^\circ = 30^\circ$
Sleep	8	$\frac{8}{24} \times 360^\circ = 120^\circ$
Others	3	$\frac{3}{24} \times 360^\circ = 45^\circ$
Total	24	360°

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- (i) Draw a circle with a suitable radius.
- (ii) Draw a horizontal radius.
- (iii) Starting from this radius, draw sectors whose actual angles are 105° , 60° , 30° , 120° and 45° respectively.
- (iv) Now shade each sector with different colours or design as shown in the figure.



Question 5.

Solution:

Here total number of workers = 1080

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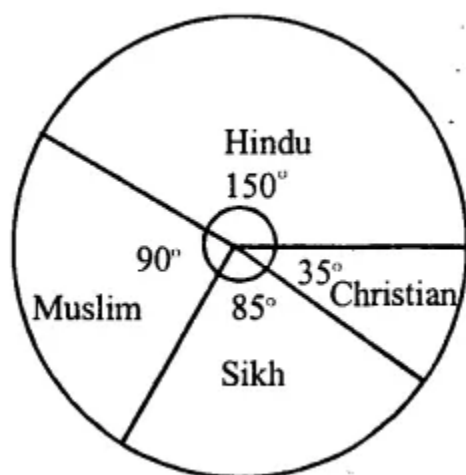
Religion	Number of workers	Central angle
Hindu	450	$\frac{450}{1080} \times 360^\circ = 150^\circ$
Muslim	270	$\frac{270}{1080} \times 360^\circ = 90^\circ$
Sikh	255	$\frac{255}{1080} \times 360^\circ = 85^\circ$
Christian	105	$\frac{105}{1080} \times 360^\circ = 35^\circ$

Now (i) Draw a circle with a suitable radius

(ii) Draw a horizontal radius

(iii) Starting from this radius, draw sectors whose central angle are 150° , 90° , 85° , 35° respectively.

(iv) Now shade the sectors with different colours or designs as shown in the figure.



Question 6.

Solution:

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Total marks obtained by Sudhir

$$= 105 + 75 + 150 + 120 + 90 = 540$$

Subject	Marks obtained	Central angle
English	105	$\frac{105}{540} \times 360^\circ = 70^\circ$
Hindi	75	$\frac{75}{540} \times 360^\circ = 50^\circ$
Mathematics	150	$\frac{150}{540} \times 360^\circ = 100^\circ$
Science	120	$\frac{120}{540} \times 360^\circ = 80^\circ$
Social science	90	$\frac{90}{540} \times 360^\circ = 60^\circ$
Total	540	$= 360^\circ$

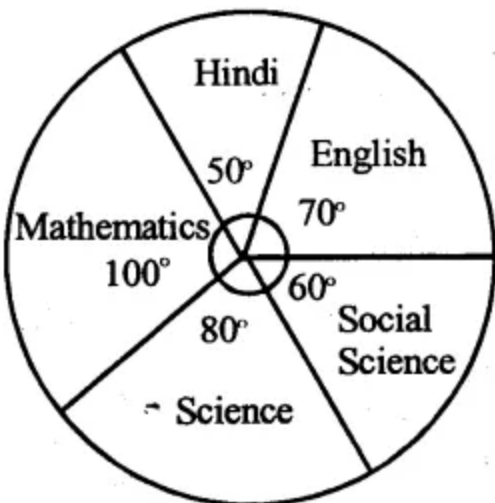
(i) Draw a circle with a suitable radius

(ii) Draw a horizontal radius

(iii) Starting from this radius, draw sectors whose central angles are 70° , 50° , 100° , 80° and 60° respectively

(iv) Now shade these sectors with different colours or designs as shown in the figure.

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Question 7.

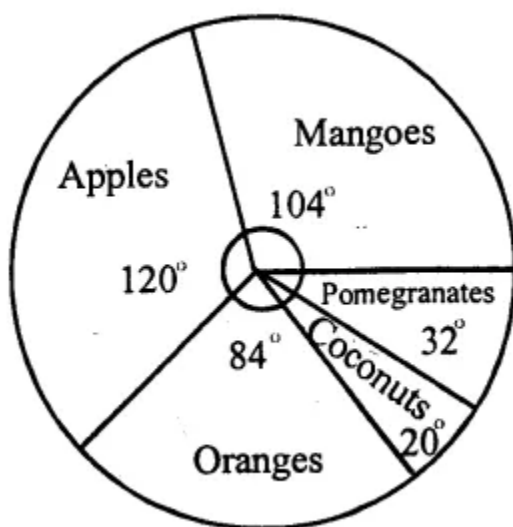
Solution:

Total number of fruits = 26 + 30 + 21 + 5 + 8 = 90

Type of fruit	Number of fruits	Central angle
Mangoes	26	$\frac{26}{90} \times 360^\circ = 104^\circ$
Apples	30	$\frac{30}{90} \times 360^\circ = 120^\circ$
Oranges	21	$\frac{21}{90} \times 360^\circ = 84^\circ$
Coconuts	5	$\frac{5}{90} \times 360^\circ = 20^\circ$
Pomegranates	8	$\frac{8}{90} \times 360^\circ = 32^\circ$
Total	90	360°

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- (i) Draw a circle with a suitable radius.
- (ii) Draw a horizontal radius.
- (iii) Starting from this radius, draw sectors of central angles 104° , 120° , 84° , 20° and 32° respectively.
- (iv) Shade these sectors with different colours or designs as shown in the figure.



Question 8.

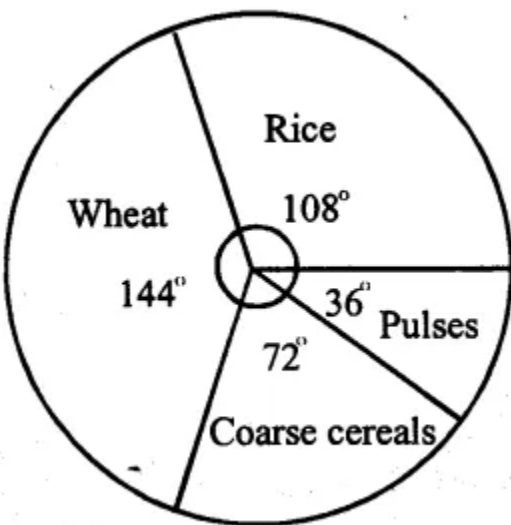
Solution:

Total number of million of tonnes of food grains = $57 + 76 + 38 + 19 = 190$ million of tonnes

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Foodgrain	Production (in million of tonnes)	Central angle
Rice	57	$\frac{57}{190} \times 360^\circ = 108^\circ$
Wheat	76	$\frac{76}{190} \times 360^\circ = 144^\circ$
Coarse cereals	38	$\frac{38}{190} \times 360^\circ = 72^\circ$
Pulses	19	$\frac{19}{190} \times 360^\circ = 36^\circ$
Total	190	360°

- (i) Draw a circle with suitable radius.
- (ii) Draw a horizontal radius.
- (iii) Starting with this radius, draw sectors of central angles 108° , 144° , 72° and 36° respectively.
- (iv) Shade these sectors with different colours or designs as shown in the figure.



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Question 9.**Solution:**

Total percentage = $25 + 45 + 20 + 10 = 100\%$

Division	Percentage	Central angle
First division	25%	$\frac{25}{100} \times 360^\circ = 90^\circ$
Second division	45%	$\frac{45}{100} \times 360^\circ = 162^\circ$
Third division	20%	$\frac{20}{100} \times 360^\circ = 72^\circ$
Failed	10%	$\frac{10}{100} \times 360^\circ = 36^\circ$
Total	100%	360°

(i) Draw a circle with a suitable radius.

(ii) Draw a horizontal radius.

(iii) Starting from this radius, draw sectors of central angles 90° , 162° , 72° and 36° respectively.

(iv) Shade these sectors with different colours or designs as shown in the figure.

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Question 10.

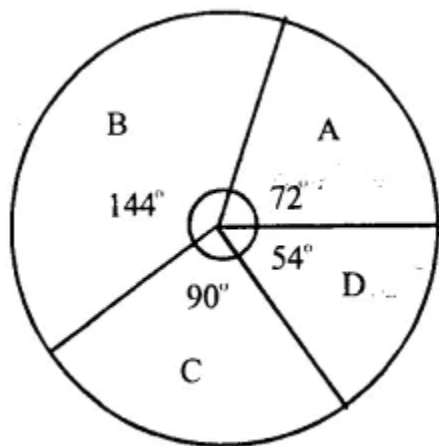
Solution:

Total percentage = 20 + 40 + 25 + 15 = 100%

Brand	Percentage of buyers	Central angle
A	20	$\frac{20}{100} \times 360^\circ = 72^\circ$
B	40	$\frac{40}{100} \times 360^\circ = 144^\circ$
C	25	$\frac{25}{100} \times 360^\circ = 90^\circ$
D	15	$\frac{15}{100} \times 360^\circ = 54^\circ$
Total	100	360°

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- (i) Draw a circle with a suitable radius.
- (ii) Draw a horizontal radius.
- (iii) Starting from this radius, draw sectors of central angles 72° , 144° , 90° and 54° respectively.
- (iv) Now shade these sectors with different colours or designs as shown in the figure.



Ex 23B

Question 1.

Solution:

Answer = (b)

Central angles = $2502400 \times 360^\circ$

= 752

= 3712°

Question 2.

Solution:

Answer (c)

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$$\text{Central angle} = 35100 \times 360^\circ$$

$$= 126^\circ$$

Question 3.**Solution:**

Answer = (a)

Total number of strength = 1650

Arts stream's central angle = 48°

No. of students of Arts stream

$$= 48360 \times 1650$$

$$= 220$$

Question 4.**Solution:**

Answer = (c)

Central angle of students reading novels = 81°

$$81360 \times 100$$

$$= 452$$

$$= 2212\%$$

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- Chapter 9–Percentage
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- Chapter 15–Quadrilaterals
- Chapter 16–Parallelograms
- Chapter 17–Construction of Quadrilaterals
- Chapter 18–Area of a Trapezium and a Polygon
- Chapter 19–Three-Dimensional Figures
- Chapter 20–Volume and Surface Area of Solids
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- Chapter 22–Constructing and Interpreting Bar Graphs
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He was born on January 2, 1946 in a village of Delhi. He graduated from Kirori Mal College, University of Delhi. After completing his M.Sc. in Mathematics in 1969, he joined N.A.S. College, Meerut, as a lecturer. In 1976, he was awarded a fellowship for 3 years and joined the University of Delhi for his Ph.D. Thereafter, he was promoted as a reader in N.A.S. College, Meerut. In 1999, he joined M.M.H. College, Ghaziabad, as a reader and took voluntary retirement in 2003. He has authored more than 75 titles ranging from Nursery to M. Sc. He has also written books for competitive examinations right from the clerical grade to the I.A.S. level.

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