Swotters Academy

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Test / Exam Name: Ch5 - Data Handling | **Standard: 8th** | **Subject: Mathematics**

Student Name: ..... **Section:** ..... **Roll No.:** .....

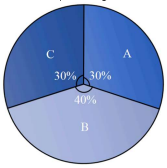
Questions: 24 | Time: 01:45 hh:mm | Marks: 50

Instructions

1. Rough work on the right side and new section from new page
2. New section on new page
3. Honesty is the best policy.

SECTION-A

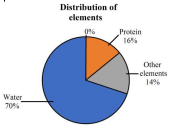
Q1. Observe the pie chart given below and answer the following questions: **1 Mark**



Which sector has the greatest angle?

A A **B** B **C** C **D** None of these.

Q2. The distribution of constituents in human body is represented by the following pie chart, The angle of the sector showing the distribution of protein and other constituents is: **1 Mark**

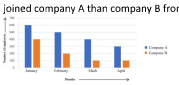


A 108º **B** 54º **C** 50º **D** 30º

Q3. In a pie chart, the total angle at the centre of the circle is: **1 Mark**

A 180° **B** 360° **C** 270° **D** 90°

Q4. The given graph shows the number of employees who joined the two different companies from january to april how many more employees joined company A than company B from January to april? **1 Mark**



A 800 **B** 1000 **C** 1800 **D** 1200

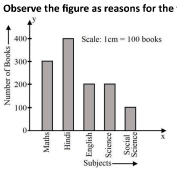
Q5. What is the central angle of the sector (in the above pie chart) representing hormones enzymes and other proteins. **1 Mark**

A 120° **B** 144° **C** 156° **D** 176°

Q6. **Directions:** In the following questions, the Assertions (A) and Reason(s) (R) have been put forward. Read both the statements carefully and choose the correct alternative from the following: **1 Mark**

Assertions (A): Hindi have maximum books.

Observe the figure as reasons for the following assertions:



A Both A and R are true and R is the correct explanation of A. **B** Both A and R are true but R is not the correct explanation of A.

C A is true but R is false. **D** A is false but R is true.

Q7. A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is: **1 Mark**

a spade.

Q8. When two dice are rolled: **1 Mark**

Find probability of getting an odd total.

Q9. The probability of getting a prime number is the same as that of a composite number in a throw of a dice. **1 Mark**

Q10. The sixth class interval for a grouped data whose first two class intervals are 10-15 and 15-20 is _____. **1 Mark**

Q11. On throwing a dice once, the probability of occurence of a composite number is $\frac{1}{2}$. **1 Mark**

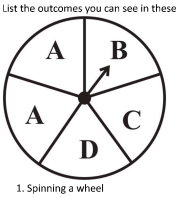
Q12. An experiment whose outcomes cannot be predicted exactly in advance is called a _____ experiment. **1 Mark**

SECTION-B

Q13. Three coins are tossed together. Find the probability of getting: **2 Marks**

exactly two heads.

Q14. List the outcomes you can see in these experiments. **2 Marks**

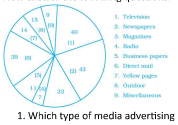


1. Spinning a wheel
2. Tossing two coins together

Q15. The probability that it will rain tomorrow is 0.85. What is the probability that it will not rain tomorrow? **2 Marks**

Q16. Following is a pie chart showing the amount spent in rupees (in thousands) by a company on various modes of advertising for a product. **2 Marks**

Now answer the following questions.



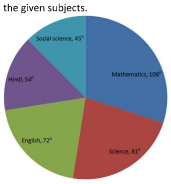
1. Which type of media advertising is the greatest amount of the total?
2. Which type of media advertising is the least amount of the total?
3. What per cent of the total advertising amount is spent on direct mail campaigns?
4. What per cent of the advertising amount is spent on newspaper and magazine advertisements?
5. What media types do you think are included in miscellaneous? Why aren't those media types given their own category?

Q17. A die was thrown 25 times and following scores were obtained: **3 Marks**

1, 5, 2, 4, 3, 6, 1, 4, 2, 5, 1, 6, 2, 6, 3, 5, 4, 1, 3, 2, 3, 6, 1, 5, 2.

Prepare a frequency table of the scores.

Q18. In the pie-chart shows the marks obtained by a student in an examination. If the student secures 440 marks in all, calculate his marks in each of the given subjects. **3 Marks**



Q19. A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer. **3 Marks**

Season	No. of votes
Summer	90
Rainy	120
Winter	150

1. Which season got the most votes?
2. Find the central angle of each sector.
3. Draw a pie chart to show this information.

Q20. One card is drawn at random from a well-shuffled deck of 52 cards. Find the probability that the card drawn is: **3 Marks**

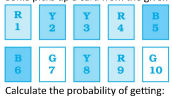
1. A 4.
2. A queen.
3. A black card.

SECTION-C

Q21. The following data represents the approximate percentage of water in various oceans. Prepare a pie chart for the given data. **4 Marks**

Pacific	40%
Atlantic	30%
Indian	20%
Others	10%

Q22. Sonia picks up a card from the given cards. **4 Marks**



Calculate the probability of getting:

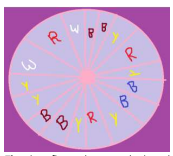
1. An odd number.
2. A Y card.
3. A G card.
4. B card bearing number > 7.

Q23. The number of students in a hostel, speaking different languages is given below. **5 Marks**

Display the data in a pie chart.

Language	Hindi	English	Marathi	Tamil	Bangali	Total
Number of students	40	12	9	7	4	72

Q24. **5 Marks**



The given figure shows a spinning wheel divided into different sectors. These are painted as different sectors as shown. The wheel is spinned.

What is the probability of getting:

1. a white sector:
   1. 1
   2. $\frac{2}{17}$
   3. $\frac{1}{10}$
   4. $\frac{4}{18}$
2. a red sector:
   1. $\frac{3}{17}$
   2. $\frac{5}{17}$
   3. $\frac{3}{4}$
   4. 1
3. a yellow sector:
   1. $\frac{1}{9}$
   2. $\frac{2}{9}$
   3. $\frac{6}{17}$
   4. 0
4. a blue sector:
   1. $\frac{3}{7}$
   2. $\frac{1}{17}$
   3. $\frac{6}{7}$
   4. $\frac{2}{17}$
5. a brown sector:
   1. $\frac{1}{8}$
   2. 1
   3. 0
   4. $\frac{4}{17}$