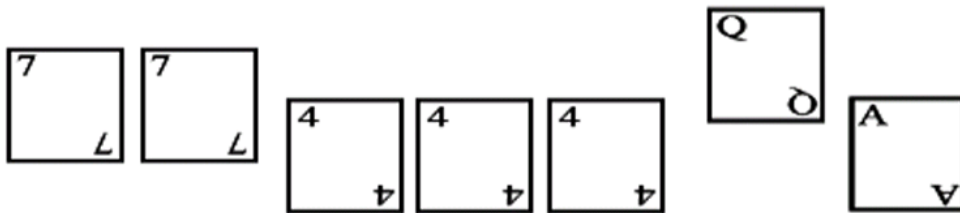


STD VIII

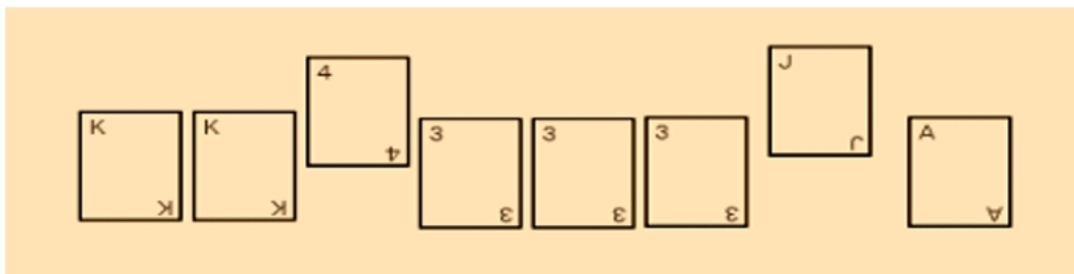
DATA HANDLING

CASE STUDY 1: (Playing Cards)

(a) From a pack of cards the following cards are kept face down. Sunil wins if he picks up a face card. Find the probability of Sunil winning ?



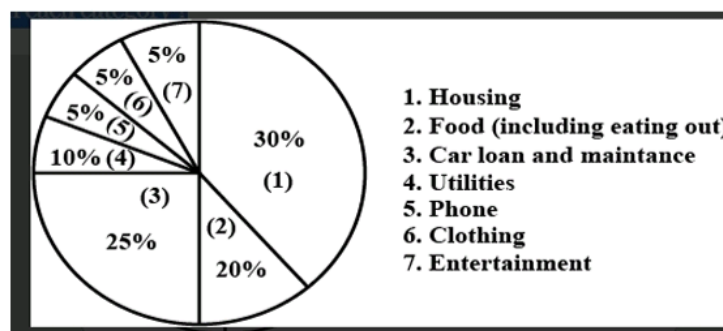
(b) Now the next set which is at bottom are added to the above cards :



What is the probability of Sunil winning now? Reshma wins if she picks up a 4. What is the probability of Reshma winning?

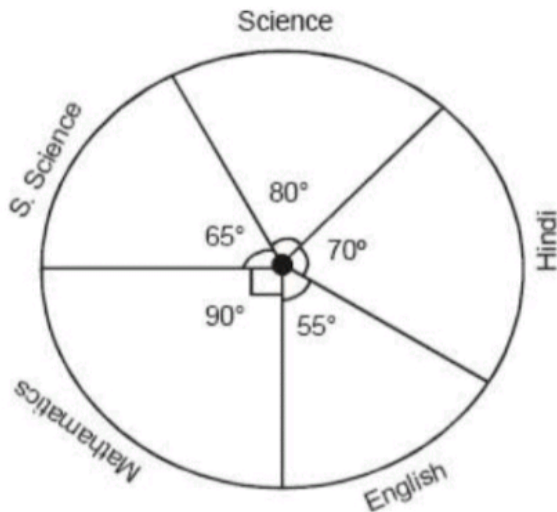
CASE STUDY 2:

A financial counsellor gave a client this pie chart describing how to budget his income. If the client brings home Rs 50,000 each month, how much should he spend in each category?



CASE STUDY/DATA HANDLING/PIE CHART

The adjoining pie chart gives the marks scored in an examination by a student in Hindi, English, Mathematics, Social Science and Science. If the total marks obtained by the students were 540.



Answer the following questions;

$$FRACTION = \left(\frac{MARKS \ OBTAINED \ IN \ THE \ SUBJECT}{TOTAL \ MARKS \ OBTAINED \ IN \ ALL \ SUBJECTS} \right)$$

$$CENTRAL \ ANGLE = \left(\frac{MARKS \ OBTAINED \ IN \ THE \ SUBJECT}{TOTAL \ MARKS \ OBTAINED \ IN \ ALL \ SUBJECTS} \right) \times 360^\circ$$

SUBJECT	MARKS	FRACTION	CENTRAL ANGLE
HINDI	u		70°
ENGLISH	v		55°
MATHS	w		90°
SST	x		65°
SCIENCE	y		80°
TOTAL	540		360°

- Find the value of u, v, w, x and y . Find the fraction for each subject using the formula given.
- In which subject did the student score 105 marks?
- How many more marks were obtained by the student in Mathematics than in Hindi?
- Examine whether the sum of the marks obtained in Social Science and Mathematics is more than that in Science and Hindi.