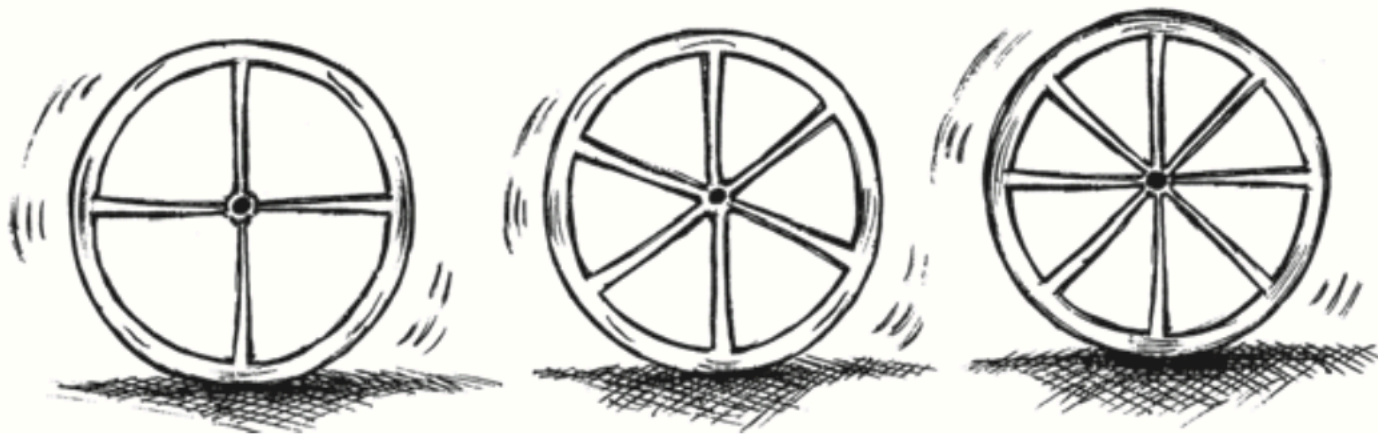




# ***Street Food Map Of India***

3. Rehman is making a wheel using spokes. He wants to fix equal spokes in such a way that the angles between any pair of consecutive spokes are equal. Help him by completing the following table.

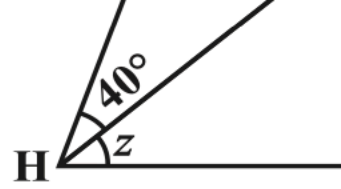


Number of spokes	4	6	8	10	12
Angle between a pair of consecutive spokes	$90^\circ$	$60^\circ$	...	...	...

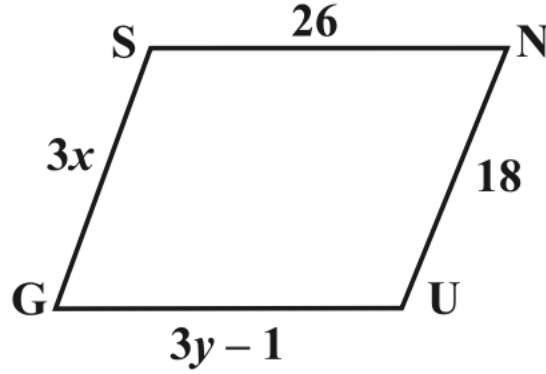
- (i) Are the number of spokes and the angles formed between the pairs of consecutive spokes in inverse proportion?
- (ii) Calculate the angle between a pair of consecutive spokes on a wheel with 15 spokes.
- (iii) How many spokes would be needed, if the angle between a pair of consecutive spokes is  $40^\circ$ ?

**Example 9:** If 15 workers can build a wall in 48 hours, how many workers will be required to do the same work in 30 hours?

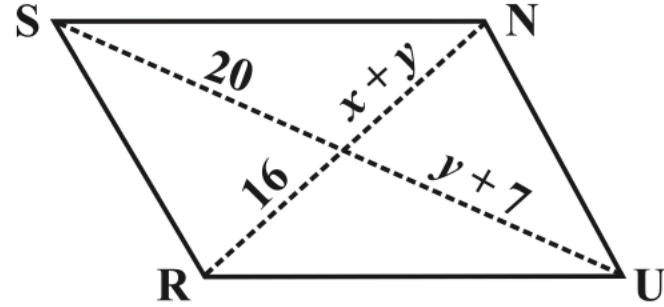
8. The following figures GUNS and RUNS are parallelograms. Find  $x$  and  $y$ . (Lengths are in cm)



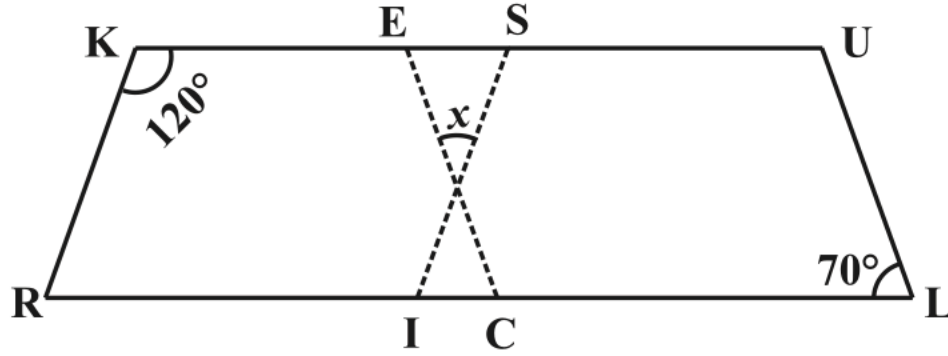
(i)



(ii)

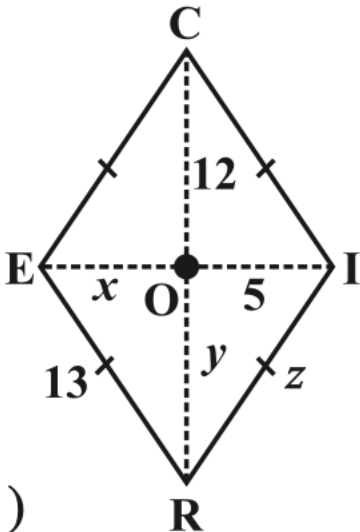


9.



In the above figure both RISK and CLUE are parallelograms. Find the value of  $x$ .

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**Fig 3.30**

## Example 7:

RICE is a rhombus (Fig 3.30). Find  $x$ ,  $y$ ,  $z$ . Justify your findings.

Which form of graph would be appropriate to display the following data.

1. Production of food grains of a state.

Year	2001	2002	2003	2004	2005	2006
Production (in lakh tons)	60	50	70	55	80	85

2. Choice of food for a group of people.

Favourite food	Number of people
North Indian	30
South Indian	40
Chinese	25
Others	25
Total	120

3. The daily income of a group of a factory workers.

Daily Income (in Rupees)	Number of workers (in a factory)
75-100	45
100-125	35
125-150	55
150-175	30
175-200	50
200-225	125
225-250	140
Total	480