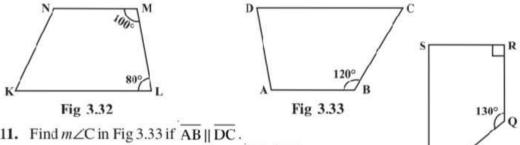
Fig 3.34

Subject: - Mathematics Teacher: - Ms. Nancy Worksheet -16 Class: - VIII Name: \_\_\_\_\_ Class & Sec: \_\_\_\_\_ Roll No. \_\_\_\_\_ Date: 26.05.2020 9. Ex3.3 70% L In the above figure both RISK and CLUE are parallelograms. Find the value of x. 52 MATHEMATICS

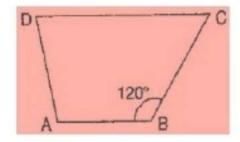




- 11. Find  $m \angle C$  in Fig 3.33 if  $\overline{AB} \parallel \overline{DC}$ .
- 12. Find the measure of  $\angle P$  and  $\angle S$  if  $\overline{SP} \parallel \overline{RQ}$  in Fig 3.34. (If you find  $m \angle R$ , is there more than one method to find  $m \angle P$ ?)

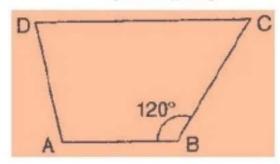
## Question 11

# Find m $\angle$ C in figure, if $A\vec{B}$ || $D\vec{C}$ ,



### Answer 11

Here,  $\angle$ B +  $\angle$ C = 180°

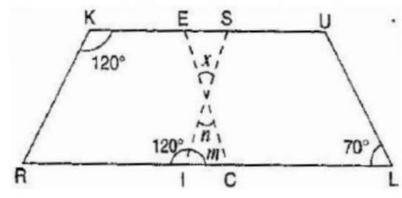


$$\Rightarrow$$
 m $\angle$ C = 180 $^{\circ}$  - 120 $^{\circ}$  = 60 $^{\circ}$ 

#### Answer 9

In parallelogram RISK,

[Opposite angles of a parallelogram are equal]



and 
$$\angle$$
ECI =  $\angle$ L = 70°

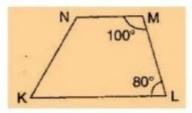
[Corresponding angles]

[Angle sum property of a triangle]

[Vertically opposite angles]

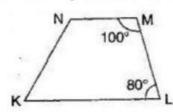
#### Question 10

Explain how this figure is a trapezium. Which is its two sides are parallel?



#### Answer 10

Here,  $\angle M + \angle L = 100^{\circ} + 80^{\circ} = 180^{\circ}$  [Sum of interior opposite angles is 180°]

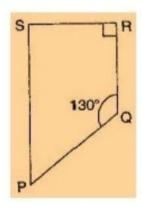


.. NM and KL are parallel.

Hence, KLMN is a trapezium.

#### Question 12

Find the measure of  $\angle P$  and  $\angle S$  if SP = ||RQ = ||RQ



#### Answer 12

Here,  $\angle P + \angle Q = 180^{\circ}$ 

Yes, one more method is there to find ∠P

$$\angle$$
S +  $\angle$ R +  $\angle$ Q +  $\angle$ P = 360°

$$\Rightarrow 90^{\circ} + 90^{\circ} + 130^{\circ} + \angle P = 360^{\circ}$$

[Sum of co-interior angles is 180°]

[Given]

[Angle sum property of quadrilateral]