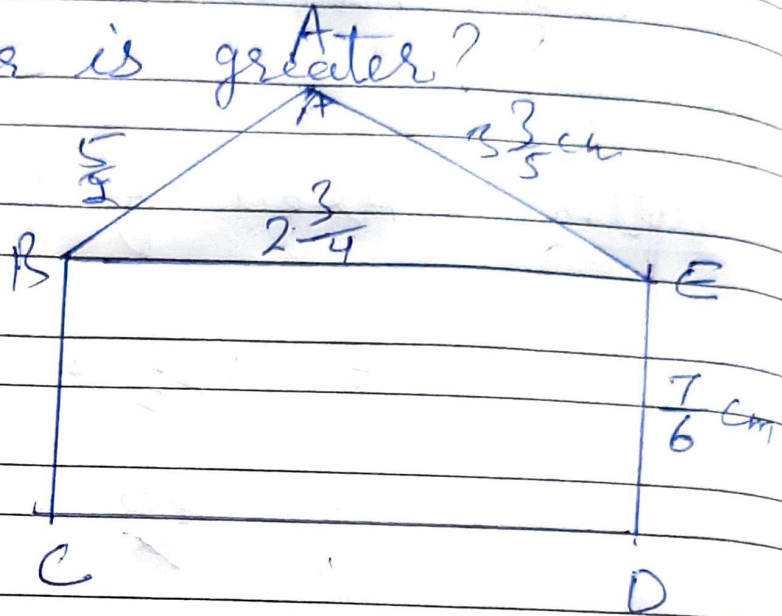


- (5) Find the perimeters of (i)  $\triangle ABE$   
 (ii) the rectangle BCDE in this figure whose perimeter is greater?



Solution

(i) P.M. of  $\triangle ABE$  = Sum of all three sides =  $5 + 3\frac{3}{5} + 2\frac{3}{4}$

$$= 5 + \frac{18}{5} + \frac{11}{4}$$

$$= \frac{50 + 72 + 55}{20}$$

$$= \frac{177}{20} \text{ cm} = 8\frac{17}{20} \text{ cm}$$

(ii) P.M. of Rectangle BCDE =  $2(l+b)$

$$= 2\left(\frac{7}{6} + 2\frac{3}{4}\right)$$

$$= 2\left(\frac{7}{6} + \frac{11}{4}\right)$$

PAGE

$$= 2 \left( \frac{47+33}{12} \right)$$

$$= 2 \left( \frac{47}{12} \right)$$

$$= 2 \times \frac{47}{12}$$

$$= \frac{47}{6} = 7\frac{5}{6} \text{ cm}$$

Since,  $8\frac{17}{20} > 7\frac{5}{6}$  The p.m. of ABCD is greater than that of rectangle BCDE.

6) Sahil wants to put a picture ~~board~~ frame. The picture is  $7\frac{8}{5}$  cm wide ~~to~~ ~~bit~~ in the frame be more than  $7\frac{3}{10}$  cm wide. How much

The picture ~~board~~  
should

should the picture be ~~board~~ trimmed?

Solution

width of picture =  $7\frac{8}{5}$  cm

width of the picture frame =  $7\frac{3}{10}$  cm

width of picture frame should be trimmed



Solution

Time taken by Michael to capture the picture =  $7\frac{1}{2}$  hours

Time taken by Veerhar to capture the picture =  $3\frac{3}{4}$  hours

$$\frac{3}{4} \times \frac{3}{3} = \frac{9}{12} \text{ hours}$$

$$\therefore \frac{9}{12} > \frac{7}{12}$$

Difference  $\frac{9}{12} - \frac{7}{12} = \frac{2}{12} = \frac{1}{6}$  hours.