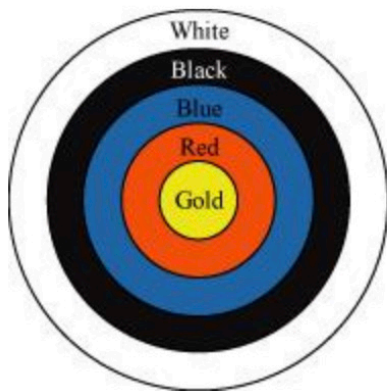


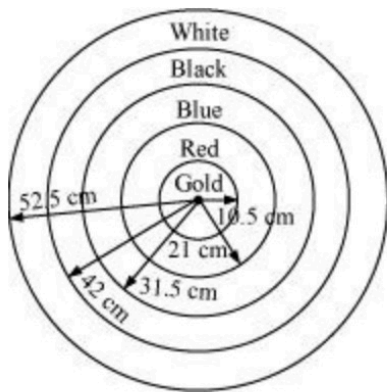
Q3:

Given figure depicts an archery target marked with its five scoring areas from the centre outwards as Gold, Red, Blue, Black and White. The diameter of the region representing Gold score is 21 cm and each of the other bands is 10.5 cm wide. Find the area of each of the five scoring regions.

[Use  $\pi = \frac{22}{7}$ ]



Solution:



$$r = 10.5 \text{ cm}$$

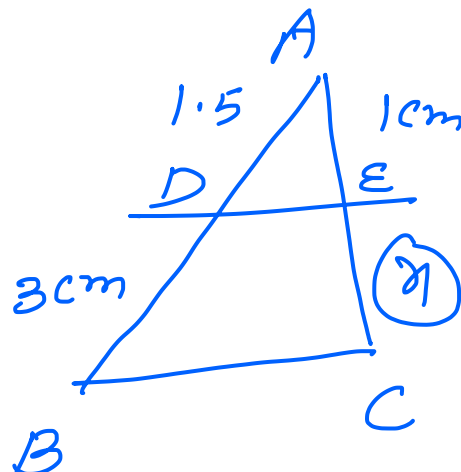
$$\text{diameter} = 2r$$

$$2 \times 10.5$$

$$= 21 \text{ cm}$$

$$A = \pi r^2$$

Red  $\Rightarrow$



Que!

$$\frac{AD}{BD} = \frac{AE}{EC}$$

$$\frac{1.5}{3} \neq \frac{1}{r}$$

$$1.5x = 3$$

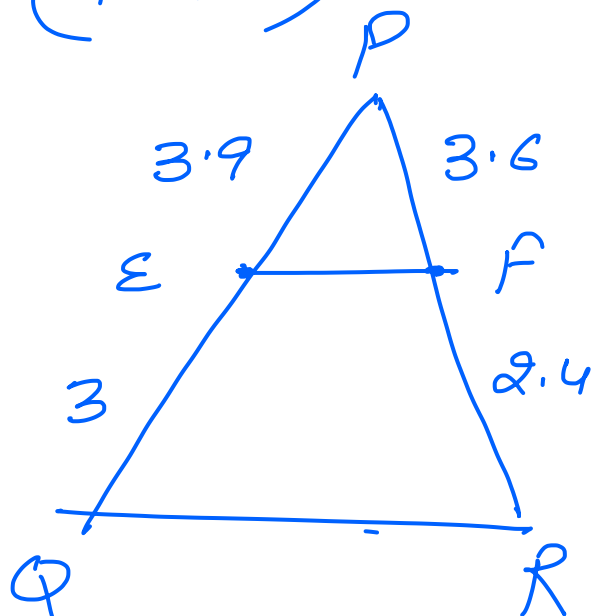
$$x = \frac{30}{15}$$

$$\boxed{x = 2 \text{ cm}}$$

$$\frac{AD}{BD} = \frac{AE}{EC} \text{ Then}$$

$$\underline{\underline{DE \parallel BC}}$$

(B.P.T.)



Que 2.

$$\frac{3.9}{30} = \frac{3.6}{214}$$

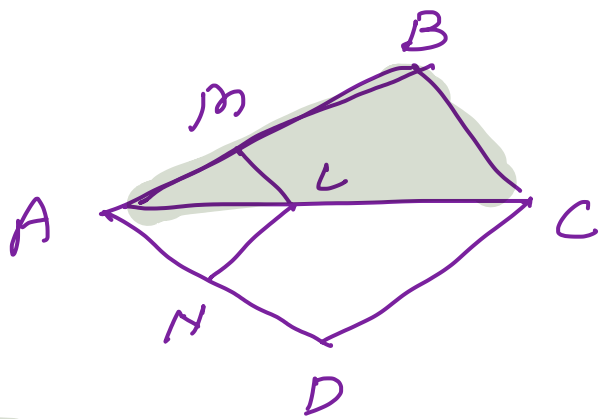
$$= 1.3 \neq 1.5$$

$$\frac{PE}{EQ} \neq \frac{PF}{FR}$$

Therefore EF is not  $\parallel$  to QR.

(ii) ?

Que 3.



$$\underline{\underline{LM \parallel CB}}$$

$$\underline{\underline{LN \parallel CD}}$$

In  $\triangle ABC$

$$\frac{AM}{MB} = \frac{AL}{LC} \quad \text{--- (i)}$$

In  $\triangle ADC$

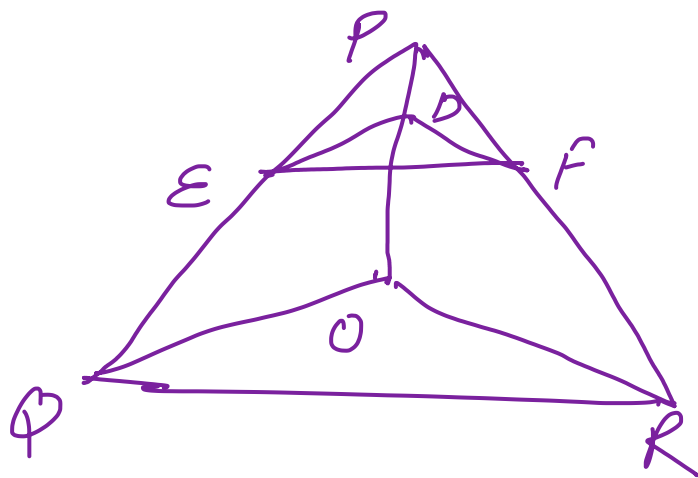
$$\frac{AL}{LC} = \frac{AN}{ND} \quad \text{--- (ii)}$$

From (i) and (ii) we obtain

$$\frac{AM}{MB} = \frac{AN}{ND}$$

Ans

Que 5.



$DE \parallel OQ$

$DF \parallel OR$

Show that  $EF \parallel QR$

In  $\triangle POQ$ ,  $DE \parallel OQ$

$$\frac{PE}{EQ} = \frac{PD}{DO}$$

(B.P.T.)

①

In  $\triangle POR$ ,  $DF \parallel OR$ .

$$\frac{PF}{FR} = \frac{PD}{DO}$$

②

$$\frac{PE}{EQ} = \frac{PF}{FR}$$

$EF \parallel QR$

