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Perimeter of a rectangle = $2 x \text{ length} + 2 x \text{ breadth}$ = $2 x 7.5 + 2 x 3.2$ = $15 + 6.4$ = $19.4 \text{ cm}$ Q.2 Find the perimeter of a square whose side is 12 cm. Ans: Given - Side of square = $12 \text{ cm}$ Find out - Perimeter of a square Perimeter of a square = $4 x \text{ side}$	<ul> <li>Example -</li> <li>A triangular plot of land has sides of 65 m, 60 m, 32 m. It is to be fenced with four rounds of wire. What is the total length of the wire required for the purpose ?</li> <li>Ans: Given - Sides of the plot a = 65 m, b = 60 m and c = 32 m.</li> </ul>
<ul> <li>= 4 x 12</li> <li>= 48 cm</li> <li>[∴ Perimeter of square is 48 cm]</li> <li>Q.3 Find the perimeter of a triangle whose sides are 6 cm. 9 cm and 5 cm.</li> </ul>	Find out - The total length of the wire required. Perimeter of triangle = Sum of all sides = $a + b + c$ = $65 + 60 + 32$
Ans: Given - Sides of the triangle $a = 6 \text{ cm}, b = 9$ cm, $c = 5 \text{ cm}$ . Find out - Perimeter of triangle ? Perimeter of a triangle = Sum of all sides = a + b + c = 6 + 9 + 5 = 20  cm [ Perimeter of a triangle is 20 cm] Q.4 Find the perimeter of triangle whose sides are 4.8 m, 10.2m, and 5.3 m. Ans: Given - Sides of the triangle $a = 4.8 \text{ m}, b = 10.2 \text{ m}, c = 5.3 \text{ m}.$ Find out - Perimeter of triangle ? Perimeter of a triangle = Sum of all sides = a + b + c = 4.8 + 10.2 + 5.3 = 20.3  m	<ul> <li>= 157 m</li> <li>For one round of the fence, length of wire require = 157 m</li> <li>For four rounds of the fence, length of wire</li> <li>= 4 x perimeter</li> <li>= 4 x 57</li> <li>= 628 m</li> <li>[ 628 m of wire will be required for the fence]</li> <li>2) Meenu runs 8 laps around a squre whose side is 80 m.</li> <li>How many metres does she run every day?</li> <li>Ans: Given -</li> <li>Side of the square field = 80 m, Number of laps = 8</li> <li>Find out - How many metres does Meenu run ?</li> <li>Perimeter of square = 4 x side</li> </ul>
[ Perimeter of a triangle is 20.3 m] WORD PROBLEMS	$= 4 \times 80$ = 320 m Meenu runs 320 m in one lap. In 8 laps, Meenu runs 320 x 8 = 2560 m [ Meenu runs 2560 m every day]
<ol> <li>Read the problems carefully.</li> <li>Find out - what is given and what is we have to find out.</li> <li>Write accurate formula.</li> <li>Calculate what you have to find with proper formula.</li> </ol>	3) A rectangular garden plot whose length is 17 m and breadth is 10 m is to be fenced. The cost of the fencing wire is Rs. 3.25 per metre. If the fence is to have three rounds of the wire, how much will be the cost of the total length of the wire
5) Write proper units.	required.

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## Dnyansagar Excellent Notes - Maths

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4  rounds = 75  x  4	Perimeter of a rectangle $= 2 x$ length $+ 2 x$ breadth	
= 300 m	$36 = 2 \times 10 + 2 \times breadth$	
Cost of 1 m = Rs. 2.50	36 = 20 + 2  x breadth	
Cost of $300 \text{ m} = 2.50 \times 300$	36-20 = 2  x breadth	
= KS. / 50.00	16 = 2  x breadth	
5) If a border is to be attached to a final of length $5 \text{ m} 20 \text{ cm}$ and broadth $3 \text{ m} 30 \text{ cm}$	$16 = 2 \times 8$	
What is the length of the horder re-	8 cm = breadth	
anired?	[ The breadth of the rectangle is 8cm]	
Ans: Given -		
length -5 m 20cm,breadth 3 m30 cm	EXCERCISE - 41	
Find out -		
Perimeter of rectangle	0.1 The perimeter of a triangle is 50 cm. If	
Perimeter of a rectangle = $2 x \text{ length} + 2 x \text{ breadth}$	two of its sides are 15 am and 20 am long	
= <u>2 x 5.20</u> + <u>2 x 3.30</u>	find the length of its sides	
= <u>10.40 + 6.60</u>	Tind the length of its sides.	
= 17  m	Ans: Given -	
[ Length of the border required is 17 m]	Perimeter of triangle = 50 cm,	
Einding the length of a side when perim	Sides of triangle - $a=15$ cm, $b = 20$ cm,	
eter is given -	Find out -	
Example.	$-\mathbf{c} = ?$	
1) The perimeter of a square is 48 cm. Find	Perimeter of triangle = Sum of all sides	
the length of its side.	= a+b+c	
Ans: Given -	50 = 15 + 20 + c	
Perimeter of a side = $48 \text{ cm}$	50 = 35 + c	
Find out -	50 - 35 = c	
Length of sides.	15 = c	
Perimeter of square $= 4 x$ side	[ Length of the third side is 15 cm ]	
48 = 4 x  side	$\Omega_{2}$ If the perimeter of a square is 80 cm find	
But, $4 \times 12 = 48$	the longth of its sides	
12 = side	Ans: Civon parimeter of a square = 80 cm	
[ Side of the square is 12 cm ]	Find out L ongth of square 2	
2) Perimeter of a rectangle is 36 cm and its	Pind out - Length of square ?	
length 10 cm. Find its breadth.	Perimeter of square $= 4 \times \text{side}$	
Ans: Given -	$80 = 4 \times \text{side}$	
Find out $F$ indext $F$ is the second secon	But, $80 = 4 \times 20$	
r mu out - breadth	side = $20 \text{ cm}$	
bicauti	[ Length of square is 20 cm]	
	5	

Q.3 The perimeter of a rectangle is 62 m and its breadth is 7 m. Find its length.	<b>Find out -</b> length
Ans: Given -	Perimeter of a
perimeter of a rectangle = $62 \text{ m}$ ,	
breadth $= 7 \text{ m}$	
Find out -	10
Length of a rectangle ?	
Perimeter of rectangle $= 2 x \text{ length} + 2 x \text{ breadth}$	
62 = 2 x length + 2 x 7	
62 = 2 x length + 14	[ The brea
62 - 14 = 2 x  length	<b>O.6</b> If the perir
48 = 2 x  length	m, what is t
But, $48 = 2 \times 24$	Ans: Given -
length $= 24$ cm	Perimeter of
[ Length of reactangle is 24 cm ]	Find out -
	length = ?
Q.4 The perimeter of a triangle is 55 cm. One	Perimeter of
of its sides is 15 cm. If the other two sides	16 = 4  x sid
are equal, find their length.	But, $16 = 4$
Ans: Given -	Length =
perimeter of a triangle = $55$ cm,	[ Length
one side = $a = 15$ cm	<b>0.7</b> A wire is b
Find out -	Q.7 A wire is b
two sides of triangle are of equal length i.e.	were strai
b= ?, b=?	square ho
Perimeter of a triangle = Sum of all sides	each of its
= a + b + b	Ans: Given -
55 = 15 + 2b	Length $= 50$
55 - 15 = 2b	Find out -
40 = 2b	Side of squa
but, $30 = 2 \ge 20$	Perimeter =
side = $20 \text{ cm}$	=
[ Sides of triangle is 20cm each]	=
Q.5 The perimeter of a rectangular pool is	=
100 m and its length is 30 m. Find its	Perimeter of 1
breadth.	
Ans: Given -	E
Perimeter of a rectangular pool $= 100m$ ,	
length = 30 m	[ Each si
	5

rectangle = 2 x length + 2 x breadth $100 = 2 \times 30 + 2 \times breadth$ 100 = 60+2 x breadth 0 - 60 = 2 x breadth40 = 2 x breadth $40 = 2 \times 20$ 20 cm = breadthadth of the rectangle is 20 cm] neter of a square room is 16 the length of each of its sides? f a square = 16 mf a square =  $4 \times side$ e x 4

Length 
$$= 4 \text{ m}$$

ent into a rectangle of length breadth 30 cm. If the wire ghtened them bend into a w many centimetres would sides measure ?

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cm, Breadth = 30 cm,
re?
2 x length + 2 x breadth
2 \times 50 + 2 \times 30
100 + 60
160 cm
rectangle = Perimeter of square
    160 = 4 \text{ x side}
3ut, 160 = 4 \times 40
Side = 40 \text{ cm}
de of square is 40 cm ]
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## **PROBLEMS FOR PRACTICE**

- 1) Given below are the length and breadth of some rectangles, find their perimeter.
  - 1) 10 cm, 6 cm
  - 2) 6.8 cm, 3.2 cm
  - 3) 17 m, 8 m
  - 4) 15 cm, 12 cm
- Q.2 Find the perimeter of a square whose sides is
  - 1) 15 cm
  - 2) 10 cm
  - 3) 6.5 cm
  - 4) 8 cm
- Q.3 Find the perimeter of a triangle whose sides are
  - 1) 8cm, 10 cm, 15 cm
  - 2) 3cm, 5 cm, 8 cm
  - 3) 7.5 cm, 13 cm, 7.5 cm
  - 4) 4.8m, 3.2m, 5m
- Q.4 What will be cost of wire required for fencing a triangular plot of land with sides with sides 35m, 30 m and 25 m with five rounds of wire which costs Rs. 5.25 per metre ?
- Q.5 Rajesh runs 6 laps around a square whose side is 85 m. How many metres does she run every day ?
- Q.6 If the perimeter of a square is 1 m 20 cm, find the length of its sides
- Q.7 The perimeter of rectangle is 84 m and its breadth is 17 m. Find its length.
- Q.8 If a border is to be attached to a sari of length6 m 30 cm and breadth 1 m 20 cm, what isthe length of the border required ?
- Q.9 What will be cost of wire require dfor fencing a triangular plot of land with sides 35m, 30m and 25m with five rounds of wire which costs Rs. 5.25 per metre

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Q.10 Every morning Milkhasingh takes a walk around a rectangular garden which is 400 m long and 250 m broad, what is the distance he walks every day in two rounds ?



