Dear Parents / Students

Due to the unprecedented situation, Knowledgeplus Training center is mobilized and will keep accompanying and supporting our students through this difficult time. Our Staff will be continuously, sending notes and exercises on a weekly basis through what's app and email. Students are requested to copy the notes and do the exercises on their copybooks. The answers to the questions below will be made available on our website on knowledgeplus.mu/support.php. Please note that these are extra work and notes that we are providing our students and all classes will be replaced during the winter vacation. We thank you for your trust and are convinced that, together, we will overcome these troubled times.

Knowledgeplus Training Center

Mathematics

Garde 7

Week 8

Notes and Exercise

Note:(All the Notes, Examples and Exercise are on the photos and Note:(Please copy all the Notes, Examples and Exercises on your copy book).

Name of Polygon	Shape of Polygon		Number of sides	Number of Angles
Triangle		'Tri' means "three" e.g. Tri-cycle having three wheels	3	3
Quadrilateral		'Quad″ means four e.g. quadricolour or four colours	4	4
Pentagon		"penta" means five	5	5
Hexagon		"hexa" means six	6	6
Heptagon		"Hepta" means seven	7	7
Octagon		"Octa" means eight e.g. octopus	8	8
Nonagon		"nona" means nine	9	9
Decagon		"deca" means ten	10	10

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reportelygons of the participation of the Finding unknown angles in a triangle. Example Find the value of a. 650 160 a solution a+65+60°=180° Remember Sum of interior angles in a a + 125° = 180° triangle is 180° a = 180° - 125° a = 55°rypes of Triangle 1. Se Scalene Triungle A scalene triangle is a triangle in which all the sides are up different lengists and all its angles oure different sizes. Erumple: 1 100 000 $AB \neq BL \neq AL$ and $Angle BAL \neq angle ABL \neq ungle BLA SU <math>ABL$ is a scalence triangle A symbols + is not equal to 600 10

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2. Isosleles Triungle 2 1000 An isosceles triangle is a triangle in which two of its sides and two of its angles are equal. Enample: A POR is an isosceles triangle because it has two sides of equal lenght numery PO = PR and angle POR = PRQ. isosceles has 2 equal 3cm 3cm side. R VI STORIN LINSOM NO MIL DALLANDI 11-11-11-11-12 M 3. Equilateral Triangle An equilateral triangle has all its sides of the same lenght. It is a regular polygon and stall cull its cençues are of the same size as well. Example: $\triangle xyz$ is an equilateral triangle. xy = xz = yz and $yxz = xyz = 60^{\circ}$ $yz = 12^{\circ}$ angle. In equilateral triangle cell 2cm acm side une equal. 100 M + 11 12 2cm Sumiele:

4	Zight -Angled Triungle
	A right - angled triangle is a triangle with one
	angle equal to go applicate associate and have
	Example:
	$\ln \Delta ABC, ABC = 90^{\circ}$.
	So, 1 ABC is called a right-angled triangle.
	A
	B D C
	stand for 90°
_	
5.	Acule-Angled Triangle
	Acule-Angled is a triangle with all its angles less
12	than go
	Example: Englished and the second an
	A
	40°
	1 (1- ²) RT= 3
	m 580 60 00 000 000 000 000 000 000 000 000
	N
G	Obtuse - Angled Trianglest and most way to sel
•	Obtuse angled triangle is a triangle with one
	angle obtuse, i.e., than 180° but greater than 90°
	Enample: X
	180
	1400 20.
	Y 2

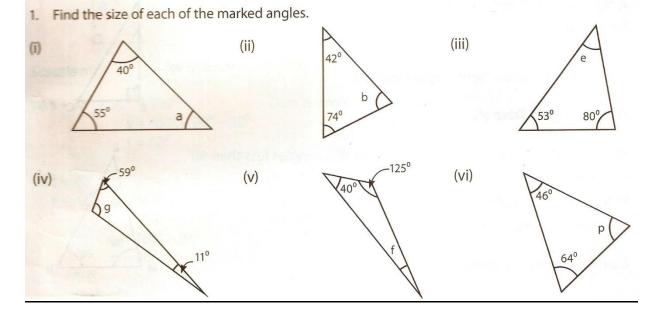
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2.0	Example				
	Find the unichown angles.				
(a)					
	38°				
	$7 s$ At 42°				
(0)					
	X35° · · · · · · · · · · · · · · · · · · ·				
	and				
	$\Delta k (1)^{\circ} = 30$				
1 257	Anno Ali Un stan scardin in bound and				
	Solution Remember cul triangles have an				
(a)	interior langle of 180° interior				
	S + 38 + 90 = 180°				
	S+128-180°				
	S = 180°-128°				
	$S = 5a^{\circ}$				
(h)	at work they have the higher that the second				
(13)	as you can see the triangle (b) is an isoceles so to the angle $t = 42^{\circ}$				
1997 - 19	30 e the ungle $t = -i\alpha$				
	$t + 42^{\circ} = 1842 + 6 + 42^{\circ} = 180^{\circ}$				
	$b = 180^{\circ}$				
	$84^{\circ} + b = 180^{\circ}$				
	b=180-84°				
	$b = 96^{\circ}$				

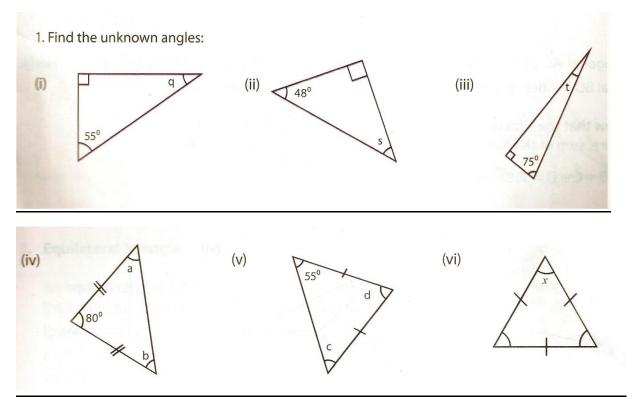
(c) for the type of question as (C) you must break apart the triangle 12 be able to answer the question. 35 a Ju n=50° As you can see that the whole triangle is an isoleles triangle so n = 50° 50°+ a + 35° = 180° CI +85° =180° a = 180° -85° $a = 95^{\circ}$ b = 180° -95° As you can see bis on b = 85° a straight line. A straight line angle is 180°, as you can see a=95°. So you will have to substrat 180° with 95° to find b. 4+85°+50° = 180° 471350 = 1850 185 4 = 180 - 135 561 y = 45° ·· a= 95° b=85 4=45°

Attempt:Ex1, Ex 2 and Ex3.

<u>Ex1</u>



<u>Ex2</u>



<u>Ex3</u>

