

Riviera International Academy

Assignment-2077

(Shrawan 20, 2077, Tuesday)

Class: Six

Subject- HPE

Topic - Communicable Diseases

1. Match the following and fill in the blanks given below:

	A	B
1	Chikungunya is a painful	by contact with an infected person, animal or insect.
2	Shaking hand with an infected person	communicable disease.
3	Using mosquito repellent	mosquito-borne disease.
4	AIDS is a	is one way of protecting us from Chikungunya.
5	Communicable diseases are easily transmitted	may cause us to fall sick.

	Disease	Transmitted by
I.	Malaria	_____
II.	_____	Dogs
III.	_____	Aedes mosquitoes
IV.	Common cold	_____

Subject- Science

- Name any four sources of heat.
- List some daily uses of heat in our daily life.
- What happens when water is heated for a long time?
- What are the effects of heat?

विषय - नेपाली

पाना नम्बर ४४को ७ नम्बरमा भएको छोटो उत्तर पूरा गर।

Subject- Mathematics

Source: Photo of exercise are given below

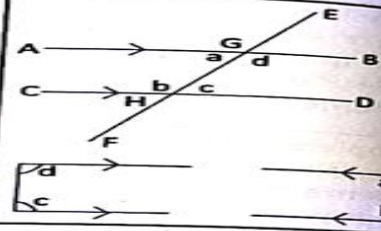
Work: read & write all examples & definitions of pages 23, 24 & 26

Do your work neatly

<p>2. Complementary angles (समपूरक कोणहरू)</p> <p>A pair of angles whose sum is 90°, are known as complementary angles. In the figure, $\angle AOB + \angle BOC = 90^\circ$. So, $\angle AOB$ and $\angle BOC$ are complementary angles.</p>	
<p>3. Supplementary angles (परिपूरक कोणहरू)</p> <p>A pair of angles whose sum is 180°, are called supplementary angles. They are also known as a linear pair.</p> <p>In the figure, $\angle AOB + \angle BOC = 180^\circ$.</p>	
<p>4. Vertically Opposite Angles (शीर्षाभिमुख कोणहरू)</p> <p>When two line segments are intersected at a point, the angles formed to the opposite side of the common vertex (intersecting point) are called vertically opposite angles. This pair of angles are always equal. In the figure, $\angle AOC = \angle BOD$ and $\angle AOD = \angle BOC$ are two pairs of V.O.A.</p>	
<p>Pairs of angles made by transversal with parallel line segments.</p> <p>In the figure alongside, AB and CD are two parallel line segments. EF is another line segment that intersects AB and CD at G and H respectively. EF is called transversal to the line segments AB and CD.</p>	
<p>1. Exterior Angles (बाह्य कोणहरू)</p> <p>Angles a, b, c and d which are outside the parallel line segments are called exterior angles. In which $\angle a$ and $\angle d$ are a pair of alternate exterior angles. Similarly, $\angle b$ and $\angle c$ are other pair of alternate exterior angles.</p> <p>[Note: The alternate exterior angles are always equal.]</p>	

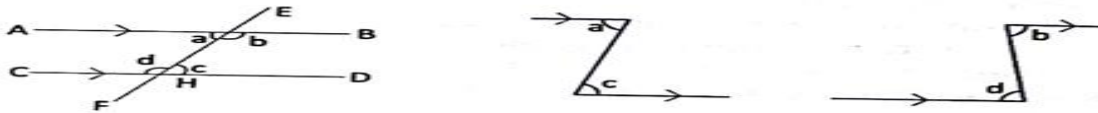
2. Interior Angles (आन्तरिक कोणहरू)

Angles a , b , c and d are inside the parallel lines. So, they are interior angles. In which a and b are a pair of co-interior angles. Similarly, c and d are another pair of co-interior angles. [Note: The sum of co-interior angles is always equal to 180° .]



3. Alternate Interior Angles (एकान्तर भित्री कोणहरू)

Angles a and c are alternate angles. Similarly, b and d are other pair of alternate angles. They are always equal to each other.



4. Corresponding Angles (संगत कोणहरू)

Angles a and b are a pair of corresponding angles. One of them is interior. They are towards the same side of the transversal and they do not have any common vertex and arm. Similarly, c and d are another pair of corresponding angles.

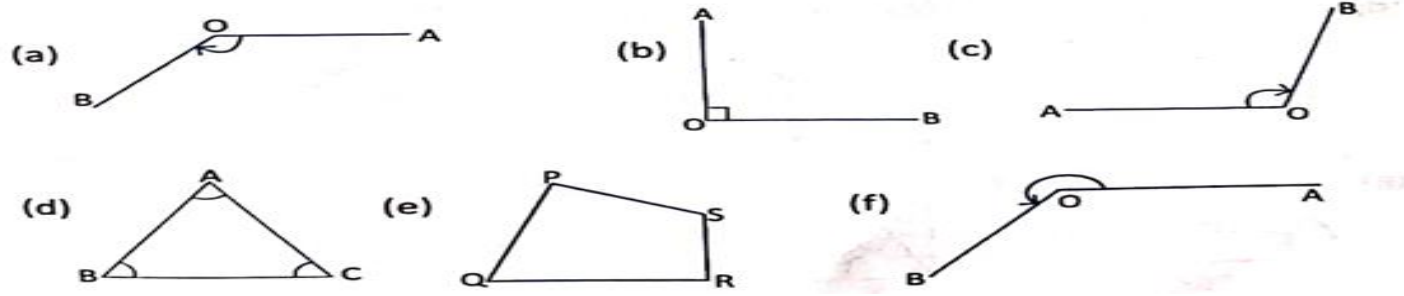


(b) Here, from the figure,
 $2x + x = 180^\circ$ [\because Sum of a linear pairs is 180°]
 or, $3x = 180^\circ$
 or, $x = \frac{180}{3} = 60^\circ$
 $\therefore x = 60^\circ$, So, $2x = 2 \times 60^\circ = 120^\circ$
 Now, $a + 2x = 180^\circ$ [Being cointerior angles]
 or, $a + 120^\circ = 180^\circ$ or, $a = 180^\circ - 120^\circ$
 $\therefore a = 60^\circ$
 and $b = 2x = 120^\circ$ [Being alternate angles]
 $c = a = 60^\circ$ [Being V.O.A.]
 Hence, $x = a = c = 60^\circ$ and $2x = b = 120^\circ$. Ans

Exercise - 2 (Two)
 अभ्यास - २ (दुई)

- Construct the following angles (using protractor):

(a) 20°	(b) 30°	(c) 60°	(d) 75°
(e) 70°	(f) 90°	(g) 110°	(h) 135°
(i) 150°	(j) 165°	(k) 230°	(l) 220°
- Copy the figure in your exercise book and measure each of the given angles.



The End.