



VIDYA BHARATI SCHOOL
OLYMPIAD WORKSHEET: Aug- 2017

GRADE: IX
Maths Olympiad

Write the correct answer in each of the following:

- If two angles are complements of each other, then angle is
a) An acute angle b) an obtuse angle c) a right angle d) a reflex angle
- An angle which measures more than 180° but less than 360° is called
a) an acute angle b) an obtuse angle c) a straight angle d) a reflex angle
- The complement of $72^\circ 40'$ is
a) $107^\circ 20'$ b) $27^\circ 20'$ c) $17^\circ 20'$ d) $12^\circ 40'$
- The measure of an angle is five times its complement. The angle measures
a) 25° b) 35° c) 65° d) 75°
- If the supplement of an angle is three times its complement, then angle is :
a) 40° b) 35° c) 50° d) 45°
- The angle between the bisectors of two adjacent supplementary angles is:
a) acute angle b) right angle c) obtuse d) none of these
- If two lines are intersected by a transversal then each pair of corresponding angles so formed is
a) equal b) complementary c) supplementary d) none of these
- Two parallel lines have:
a) A common point b) Two common points c) no common point d) infinite common point
- If one angle of triangle is equal to the sum of the other two angles then triangle is:
a) Acute triangle b) obtuse triangle c) right triangle d) none of these
- If two parallel lines are intersected by a transversal then the bisectors of the interior angles form a:
a) Rhombus b) Parallelogram c) square d) rectangle
- An exterior angle of a triangle is 80° and two interior opposite angles are equal. Measure of each of these angles is:
a) 120° b) 60° c) 40° d) 100°
- If two supplementary angles are in the ratio 2:7 then the angles are:

a) $70^\circ, 110^\circ$

b) $50^\circ, 130^\circ$

c) $35^\circ, 145^\circ$

d) $40^\circ, 140^\circ$

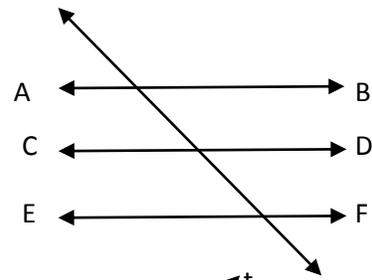
13. In the given figure $AB \parallel CD, CD \parallel EF$ and $y:z = 3:7$, then $x=?$

a) 108°

b) 126°

b) 162°

b) 63°



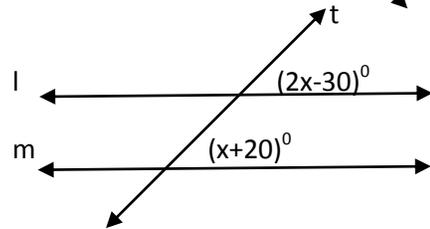
14. For what value of x shall we have $l \parallel m$?

a) $X=35$

b) $X=70$

b) $X=60$

b) $X=45$



15. If $3 \angle A = 4 \angle B = 6 \angle C$, then $A:B:C=?$

a) $3:4:6$

b) $4:3:2$

c) $2:3:4$

d) $6:4:3$

16. In $\triangle ABC$ if $\angle A + \angle B = 125^\circ$ and $\angle A + \angle C = 113^\circ$ then $\angle A=?$

a) 62.5

b) 56.5

c) 58

d) 63

17. reflex angle =

a) 90°

b) 180°

c) $180 < X < 360$

d) $90 < X < 180$

18. lines are always coplanar.

a) intersecting

b) parallel lines

c) concurrent line

d) none of these

19. If B lies between A and C and $AC = 10\text{cm}$, what is AB^2 .

a) 36cm

b) 35cm

c) 85cm

d) 25cm

20. The angles of a triangle are in the ratio $5:3:7$. The triangle is

a) an acute angled triangle

b) an obtuse angled triangle

c) a right triangle

d) an isosceles triangle

*For more practice material please click: www.brilliant.org; www.sofolympiadtrainer.com
www.olympiadhelper.com