

7<sup>TH</sup> CBSE LINES AND ANGLES MCQS ANS

1) Angles which are both supplementary and vertically opposite are

- (a)  $95^\circ, 85^\circ$  (b)  **$90^\circ, 90^\circ$**  (c)  $100^\circ, 80^\circ$  (d)  $45^\circ, 45^\circ$

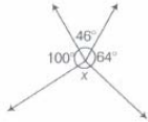
2) The angle, which makes a linear pair with an angle of  $58^\circ$  is of

- (a)  **$122^\circ$**  (b)  $123^\circ$  (c)  $119^\circ$  (d)  $69^\circ$

3) The angles  $x - 10^\circ$  and  $190^\circ - x$  are

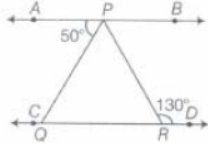
- (a) interior angles on the same side of the transversal (b) making a linear pair (c) complementary  
(d) **supplementary**

4) In the following figure, the value of  $x$  is



- (a)  $110^\circ$  (b)  $46^\circ$  (c)  $64^\circ$  (d)  **$150^\circ$**

5) In the following figure, if  $AB \parallel CD$ ,  $\angle APQ = 50^\circ$  and  $\angle PRD = 130^\circ$ , then  $\angle QPR$  is



- (a)  $130^\circ$  (b)  $50^\circ$  (c)  **$80^\circ$**  (d)  $30^\circ$

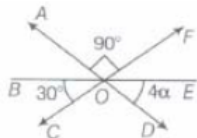
6) If two supplementary angles are in the ratio of 1 : 2, then the bigger angle is

- (a)  **$120^\circ$**  (b)  $125^\circ$  (c)  $110^\circ$  (d)  $90^\circ$

7) The measure of an angle, which is four times its supplement is

- (a)  $36^\circ$  (b)  **$144^\circ$**  (c)  $16^\circ$  (d)  $64^\circ$

8) In the following figure, the value of  $\alpha$  is



- (a)  $20^\circ$  (b)  **$15^\circ$**  (c)  $25^\circ$  (d)  $30^\circ$

9) In the following figure,  $\alpha = 35^\circ$ , then the value of  $b$  is

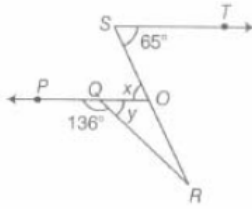


- (a) **27.5** (b) 26.5 (c) 29 (d) 28.5

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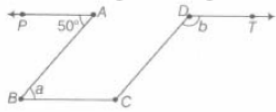
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10) In the following figure,  $PQ \parallel ST$ , then the value of  $x + y$  is



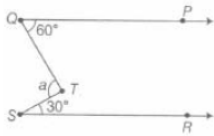
- (a)  $110^\circ$  (b)  $106^\circ$  (c)  $102^\circ$  (d)  **$109^\circ$**

11) In the given figure, if  $PA \parallel BC \parallel DT$  and  $AB \parallel DC$ , then the values of  $a$  and  $b$  are respectively



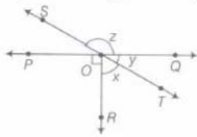
- (a)  $60^\circ$  and  $120^\circ$  (b)  **$50^\circ$  and  $130^\circ$**  (c)  $70^\circ$  and  $110^\circ$  (d)  $80^\circ$  and  $100^\circ$

12) In the given figure, if  $OP \parallel SR$ , the value of  $a$  is



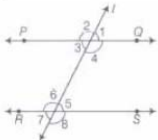
- (a)  $40^\circ$  (b)  $30^\circ$  (c)  **$90^\circ$**  (d)  $80^\circ$

13) In the given figure, lines  $PQ$  and  $ST$  intersect at  $O$ . If  $\angle POR = 90^\circ$  and  $x : y = 3 : 2$ , then  $z$  is equal to



- (a)  $126^\circ$  (b)  **$144^\circ$**  (c)  $136^\circ$  (d)  $154^\circ$

14) In the given figure,  $PQ \parallel RS$ . If  $\angle 1 = (2a + b)^\circ$  and  $\angle 6 = (3a - b)^\circ$ , then the measure of  $\angle 2$  in terms of  $b$  is



- (a)  $(2+b)^\circ$  (b)  $(3-b)^\circ$  (c)  **$(108-b)^\circ$**  (d)  $(180-b)^\circ$

15) A ray has how many end points?

- (a) **one** (b) two (c) three (d) zero

16) What is the sum of the measures of two supplementary angles?

- (a)  $90^\circ$  (b)  **$180^\circ$**  (c)  $360^\circ$  (d)  $270^\circ$

17) Assume figure,  $AB \parallel CD$  and  $EF$  is the transversal. If angles  $AGH = 60^\circ$ , what is the measure of angle  $DHF$ ?

- (a)  $90^\circ$  (b)  **$120^\circ$**  (c)  $180^\circ$  (d)  $105^\circ$

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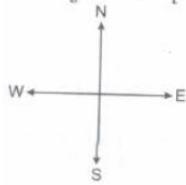
18) A line has how many end points?

- (a) one (b) two (c) three **(d) zero**

19) What is the sum of the measures of two complementary angles?

- (a)  $90^\circ$**  (b)  $120^\circ$  (c)  $180^\circ$  (d)  $105^\circ$

20) The angles between North and East and North and West are:

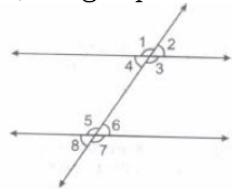


- (a) complementary angles **(b) supplementary angles** (c) both acute angles  
(d) both obtuse angles

21) Which of the following pair of angles are supplementary?

- (a)  $48^\circ, 42^\circ$  (b)  $60^\circ, 60^\circ$  **(c)  $75^\circ, 105^\circ$**  (d)  $179^\circ, 2^\circ$

22) In fig. a pair of corresponding angles is:



- (a)  $\angle 1, \angle 2$  (b)  $\angle 3, \angle 6$  (c)  $\angle 3, \angle 5$  **(d)  $\angle 3, \angle 7$**

23) If two lines are intersected by a transversal, then the number of pairs of interior angles on the same side of the transversal is:

- (a) 1 **(b) 2** (c) 3 (d) 4

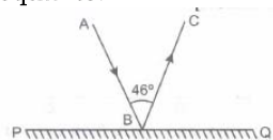
24) The angles between North and West and South and East are:

- (a) complementary **(b) supplementary** (c) both are acute (d) both are obtuse

25) Angles between South and West and South and East are:

- (a) vertically opposite angles (b) complementary angles **(c) making a linear pair**  
(d) adjacent but not supplementary

26) PQ is a mirror, AB is the incident ray and BC is the reflected ray. If  $\angle ABC = 46^\circ$  then  $\angle ABP$  is equal to:



- (a)  $44^\circ$  **(b)  $67^\circ$**  (c)  $13^\circ$  (d)  $62^\circ$

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27) If the complement of an angle is  $79^\circ$ , then the angle will be of:

- (a)  $1^\circ$  (b)  $11^\circ$  (c)  $79^\circ$  (d)  $101^\circ$

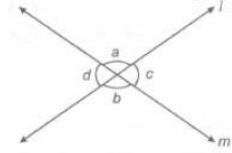
28) The angle which makes a linear pair with an angle of  $61^\circ$  is of:

- (a)  $29^\circ$  (b)  $61^\circ$  (c)  $122^\circ$  (d)  $199^\circ$

29) The angles  $x$  and  $90^\circ - x$  are:

- (a) supplementary (b) **complementary** (c) vertically opposite (d) making a linear pair

30) In Fig. , lines  $l$  and  $m$  intersect each other at a point. Which of the following is false?

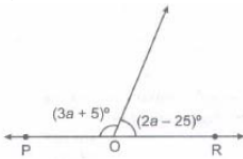


- (a)  $\angle a = \angle b$  (b)  $\angle d = \angle c$  (c)  $\angle a = \angle d = 180^\circ$  (d)  $\angle a = \angle d$

31) If angle P and angle Q are supplementary and the measure of angle p is  $60^\circ$ , then the measure of angle Q is:

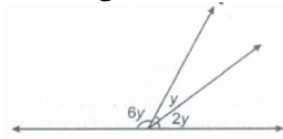
- (a)  $120^\circ$  (b)  $60^\circ$  (c)  $30^\circ$  (d)  $20^\circ$

32) POR is a line. The value of  $a$  is:



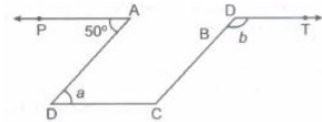
- (a)  $40^\circ$  (b)  $45^\circ$  (c)  $55^\circ$  (d)  $60^\circ$

33) In Fig. , the value of  $y$  is



- (a)  $30^\circ$  (b)  $15^\circ$  (c)  $20^\circ$  (d)  $22.5^\circ$

34)  $PA \parallel BC \parallel DT$  and  $AB \parallel DC$ . Then, the values of  $a$  and  $b$  are respectively.



- (a)  $60^\circ, 30^\circ$  (b)  $50^\circ, 130^\circ$  (c)  $70^\circ, 110^\circ$  (d)  $80^\circ, 100^\circ$

35) The difference of two complementary angles is  $30^\circ$ . Then, the angles are:

- (a)  $60^\circ, 30^\circ$  (b)  $70^\circ, 40^\circ$  (c)  $20^\circ, 150^\circ$  (d)  $105^\circ, 75^\circ$

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36) In Fig.,  $PQ \parallel SR$  and  $SP \parallel RQ$ . Then, angles  $a$  and  $b$  are respectively:

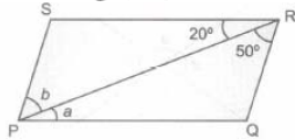
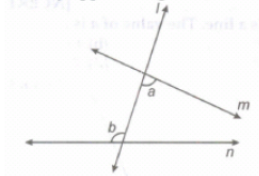


Fig. .  $a$  and  $b$  are :

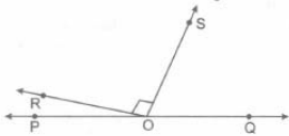
- (a)  $20^\circ, 50^\circ$  (b)  $50^\circ, 120^\circ$  (c)  $30^\circ, 50^\circ$  (d)  $45^\circ, 35^\circ$

37) In Fig.,  $a$  and  $b$  are:



- (a) alternate exterior angles (b) corresponding angles (c) **alternate interior angles**  
(d) vertically opposite angles

38) In fig.,  $\angle ROS$  is a right angle and  $\angle POR$  and  $\angle QOS$  are in the ratio 1: 5. Then  $\angle QOS$  measures:



- (a)  $150^\circ$  (b)  **$75^\circ$**  (c)  $45^\circ$  (d)  $60^\circ$

39) Statements  $a$  and  $b$  are as given below:

$a$ : If two lines intersect, then the vertically opposite angles are equal.

$b$ : If a transversal intersects, two other lines, then the sum of two interior angles on the same side of the transversal is  $180^\circ$ .

Then

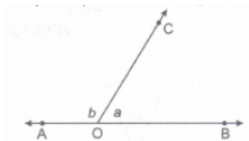
- (a) Both  $a$  and  $b$  are true (b)  **$a$  is true and  $b$  is false** (c)  $a$  is false and  $b$  is true  
(d) both  $a$  and  $b$  are false

40) For Fig., statements  $p$  and  $q$  are given below:

$p$ :  $a$  and  $b$  are forming a linear pair.

$q$ :  $a$  and  $b$  are forming a pair of adjacent angles.

Then:



- (a) **both  $p$  and  $q$  are true** (b)  $p$  is true and  $q$  is false (c)  $p$  is false and  $q$  is true  
(d) both  $p$  and  $q$  are false

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