



AL KHOZAMA INTERNATIONAL SCHOOL, DAMMAM  
B.E.S.T. Group of Schools, K.S.A.  
Affiliated to CBSE – New Delhi, Affiliation No. 5730019

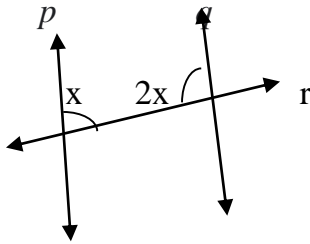
Subject: Mathematics

Grade -7

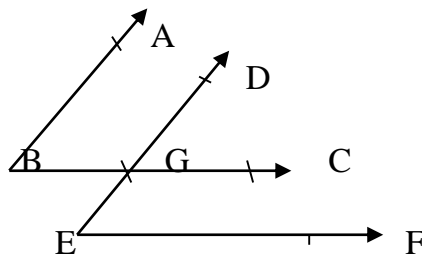
WORKSHEET-I-TERM-2(2021-'22)

**BLOCK-12: Parallel Lines**

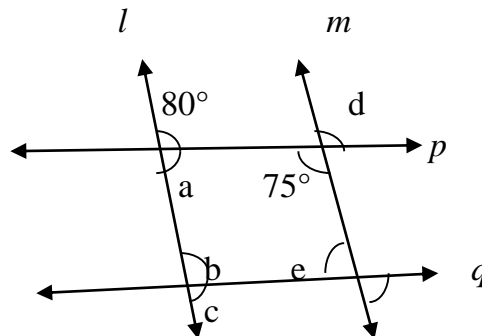
1. If the transversal line intersects the two parallel lines, then each pair of the corresponding angles is \_\_\_\_\_
2. If the parallel lines intersected by a transversal line, then pair of interior angles are \_\_\_\_\_
3. Two vertically opposite angles cannot be \_\_\_\_\_
4. Find the value of  $x$ , if  $p \parallel q$



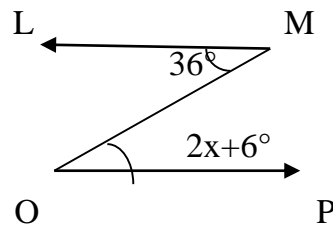
5. The arms of two angles are parallel. If  $\angle GEF = 47.5$ , Then find the  $\angle ABC$ ,  $\angle DGC$  and  $\angle EGC$ .



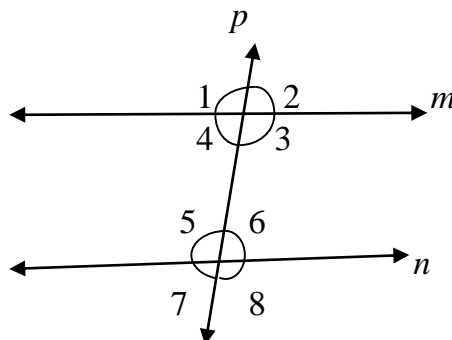
6. In the given figure,  $l \parallel m$  and  $p$  and  $q$  are the transversal lines. Find the value of  $\angle a$ ,  $\angle b$ ,  $\angle c$ ,  $\angle d$ ,  $\angle e$  and  $\angle f$ .



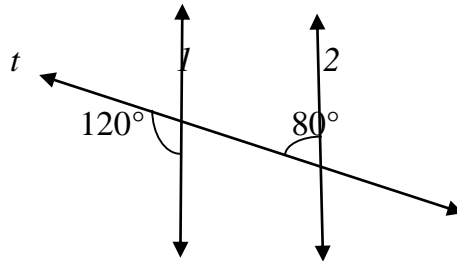
7. In the given figure two lines are parallel. Find the value of  $x$ .



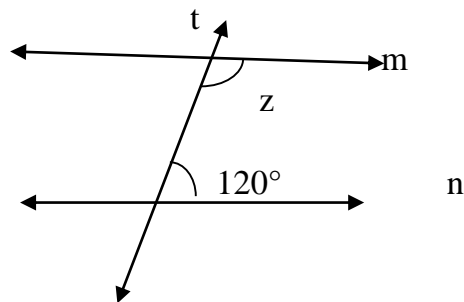
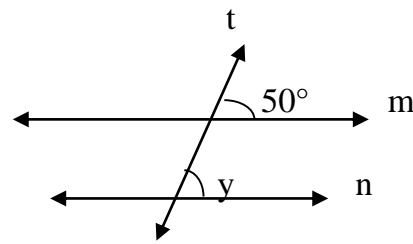
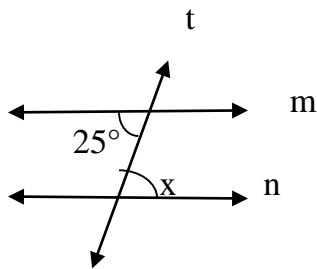
8. In the given figure, lines  $m$  and  $n$  are parallel lines, Identify
- The pair of corresponding angles.
  - The pair of alternate Interior angles.
  - The pair of interior angles on the same side of transversal.
  - The pair of vertically opposite angles.



9. In the given figure decide whether line  $l \parallel 2$ , if “ $t$ ” is the transversal line intersects lines  $l$  and  $2$ .



10. If  $m \parallel n$  and  $t$  is the transversal line, then find the value of  $x$ ,  $y$ ,  $z$ .



**BLOCK 20: Adding and Subtracting of Rational Numbers**

11. The additive inverse of i)  $\frac{3}{5}$       ii)  $\frac{-15}{-17}$       iii)  $\frac{13}{-17}$
12. Add using the number lines :  $\frac{2}{5} + \frac{7}{5}$
13. The sum of  $\frac{7}{8}$  and  $\frac{-3}{8}$  is
14. Subtract  $\frac{9}{17}$  from  $\frac{15}{17}$
15. Add the following:
- i)  $\frac{-7}{11}$  and  $\frac{-1}{5}$

ii)  $\frac{3}{7}, \frac{-11}{-14}$  and  $\frac{8}{21}$

16. Subtract the following:

iii)  $\frac{11}{-13}$  from  $\frac{1}{2}$

iv)  $\frac{5}{8}$  from  $\frac{-11}{12}$

17. What should be added to  $\frac{-11}{19}$ , to make the sum  $\frac{4}{5}$ ?

18. A hot air balloon ascends in the air and reaches a height of  $11\frac{1}{2}$  m from the sea level and descends by  $7\frac{1}{3}$  m. How much above the sea level is it now?

19. On a fruit stall,  $\frac{1}{4}$  are bananas,  $\frac{1}{5}$  are oranges,  $\frac{1}{3}$  are kiwis. The remaining are watermelons. What part of the stall has watermelon?

20. Simplify:

i)  $\frac{16}{20} - \frac{4}{5}$

ii)  $\frac{-2}{7} - \left(\frac{-7}{15}\right)$

iii)  $-3 + \frac{4}{7}$

iv)  $\frac{-11}{15} - \left(\frac{13}{25}\right)$

### **BLOCK 21: Multiplying and Dividing of Rational Numbers**

21. the multiplicative inverse of  $\frac{-17}{19}$

22. Multiply i)  $\frac{-4}{5} \times 2$  using number line

ii)  $\frac{2}{7}$  using number line

23. Multiply: i)  $\frac{-7}{14} \times \frac{4}{8}$       ii)  $\frac{16}{20} \times \frac{3}{-9}$

iii)  $3\frac{1}{4} \times \frac{10}{40}$       iv)  $\frac{3}{29}$  by 57

24. Divide :

i)  $\frac{12}{38} \div \frac{-11}{13}$

ii)  $\frac{75}{2} \div 15$

iii)  $\frac{-8}{9} \div \frac{-4}{15}$

iv)  $\frac{14}{36} \div \frac{1}{18}$

25. the product of two rational numbers is  $\frac{5}{12}$ . If one of the numbers is  $\frac{-45}{16}$ . Find the other rational number.

26. A car covered a distance of  $11\frac{1}{5}$  Km in 12 hours. Find the speed of the car ?

27. An equilateral triangle has a side of  $3\frac{1}{7}$  cm. Find the perimeter of the triangle.