

VASISHTHA GENESIS SCHOOL, BABEN, BARDOLI

(Academic Session: 2026-27)

Date: _____

Class: VII

Div: A/B/C/D

Roll No: _____

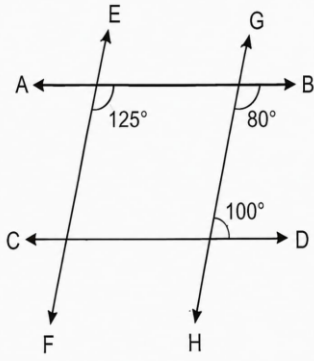
Sub: Maths

Worksheet: Chp-5 Parallel and
Intersecting Lines Chp.6 Number
Play Chp.8 Working with Fractions

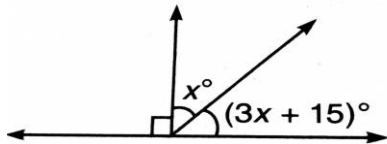
Name: _____

Q1	<i>Solve the following</i> a) $\frac{7}{12} \times \frac{18}{35} \times \frac{25}{9}$ c) $3\frac{1}{6} \div 1\frac{7}{12} \times \frac{9}{19}$	b) $2\frac{3}{5} \times 1\frac{7}{13}$ d) $\frac{14}{15} \div \left(\frac{7}{10} \times \frac{4}{9}\right)$
Q2	Find the quotient when $2\frac{3}{4}$ is divided by $\frac{11}{8}$.	Q3 The product of two numbers is $\frac{5}{12}$. If one of the numbers is $1\frac{2}{5}$, find the other number.
Q4	A committee has 180 members. Two-thirds of the members must be present for a meeting to be held. How many members must be present?	

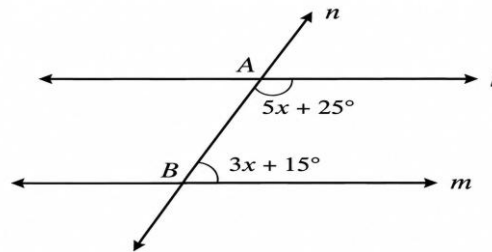
Q5	Riya and Kabir went on a picnic. They carried a 2-litre bottle of water. Riya drank $\frac{3}{5}$ of the water, and Kabir drank the remaining water. How much water did Riya drink? How much water did Kabir drink?	
Q6	Arrange the following fractions in ascending order $\frac{5}{6}, \frac{7}{12}, \frac{3}{4}, \frac{11}{18}$	Q7) A ribbon is $6\frac{3}{4}$ metres long. It is cut into pieces, each measuring $\frac{3}{4}$ metre. How many pieces can be made?
Q8	Find the magic constant of each magic square. a) A 4x4 normal magic square using the numbers 1 to 16.	b) A 5x5 normal magic square using the numbers 1 to 25.
Q9	Create a 3x3 magic square using nine different integers, such that the sum of every row, column and diagonal is 0.	Q10) The two terms of a Virahanka sequence are 89 and 144. Find the next two terms. Find the previous two terms.

Q11	Solve the following cryptarithm. Each letter represents a different digit. Find the values of K, H and M $\begin{array}{r} K2 \\ + K2 \\ \hline HMM \end{array}$	Q12) Find the values of U and T. $\begin{array}{r} T \\ + T \\ \hline + T \\ \hline UT \end{array}$
Q13	Two supplementary angles are in the ratio 3 : 2. Find the measure of each angle.	Q14) An angle is five times its complement. Find the measure of the angle.
Q15	Two lines intersect at point O. One of the angles measures 126° Find the measures of the other three angles.	Q16) In the given figure, examine whether the following pairs of lines are parallel or not. (a) EF and GH (b) AB and CD 

Q17 Find the value of X

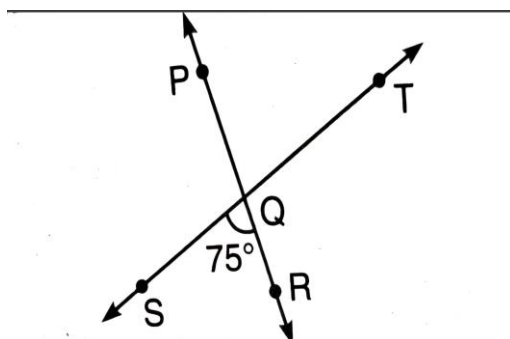


Q18)



Find the value of the unknown angles.

Q19



Study the given diagram carefully and answer the following:

a) The vertically opposite angle of $\angle PQS$ is _____.

b) $\angle$ _____ or $\angle$ _____ forms a linear pair with $\angle PQS$.

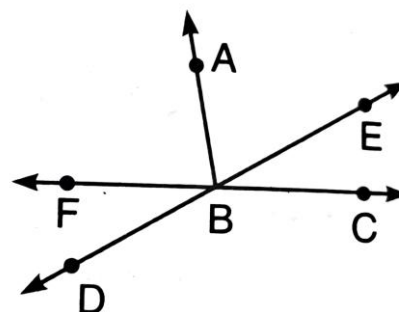
c) If $\angle SQR = 75^\circ$, then:

$\angle PQS =$ _____

$\angle TQR =$ _____

$\angle PQT =$ _____

Q20)



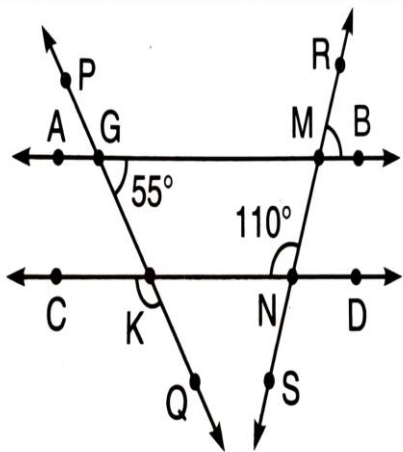
Look at the figure and answer the following

a) adjacent angle to $\angle ABF$

b) vertically opposite angle to $\angle FBE$

c) If $\angle FBD = 25^\circ$. Find $\angle DBC$

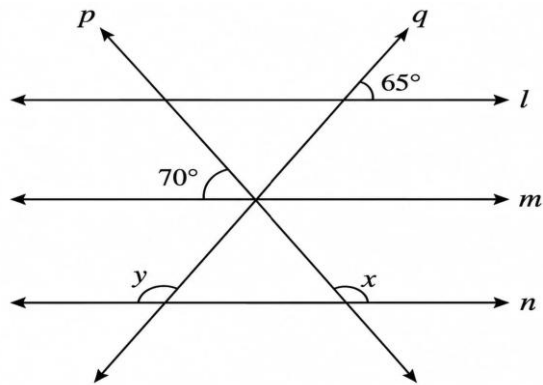
Q21



In the given figure, $AB \parallel CD$ and PQ and RS are transversals. Find

- $\angle CKQ$
- $\angle RMB$

Q22)



Five lines intersect as shown in the given figure. If lines l , m , and n are parallel, find the value of $x+y$

Q23 **Fill in the Blanks**

The reciprocal of -1 is _____.

The product of a non-zero number and its reciprocal is _____.

The sum of two odd numbers is always _____.

Angles whose sum is 90° are called _____ angles.

How many $\frac{1}{5}$'s are there in $3\frac{2}{5}$? _____

In a magic square, the sum of each row, column and diagonal is called the _____.

The supplement of 127° is _____

Find the reciprocal of $3\frac{2}{5}$ _____

Adjacent angles always have equal measures True or False _____

The angles of a linear pair are complementary. True or False _____

The property of a number that tells whether it is odd or even is called _____.