



SUCCESS KEY TEST SERIES

VIII. (English)
(Unit Test-1 (Ch- 1,2 / 10,11))

Mathematics-

DATE:

TIME: 1:30 hrs

MARKS: 40

SEAT NO:

Q.1 A) Choose the correct alternative.

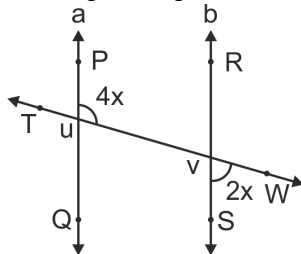
(5)

- 1) The algebraic expression in one variable is a polynomial if the index of the variable of each is a
- 2) If any index term is missing in the dividend, assume the co-efficient of the term to be
- 3) $4a \times 3a^2 = \dots\dots\dots$
- 4) $4x \times 0 = \dots\dots\dots$
- 5) $2x - (-7x) = 2x + 7x = \dots\dots\dots$

B) Answer the following questions

(5)

- 1) Division of a monomial by a monomial
 $4x \div 12x^3$
- 2) Division of a monomial by a monomial
 $(-15a^2b c^3) \div (3ab)$
- 3) In the given figure if line a \parallel line b line ℓ is a transversal then find x.



- 4) Compare the following numbers : -9 and -6
- 5) Division of a monomial by a monomial
 $(-20y^5) \div (-2y^3)$

Q.2 Attempt the following questions. (Any five)

(10)

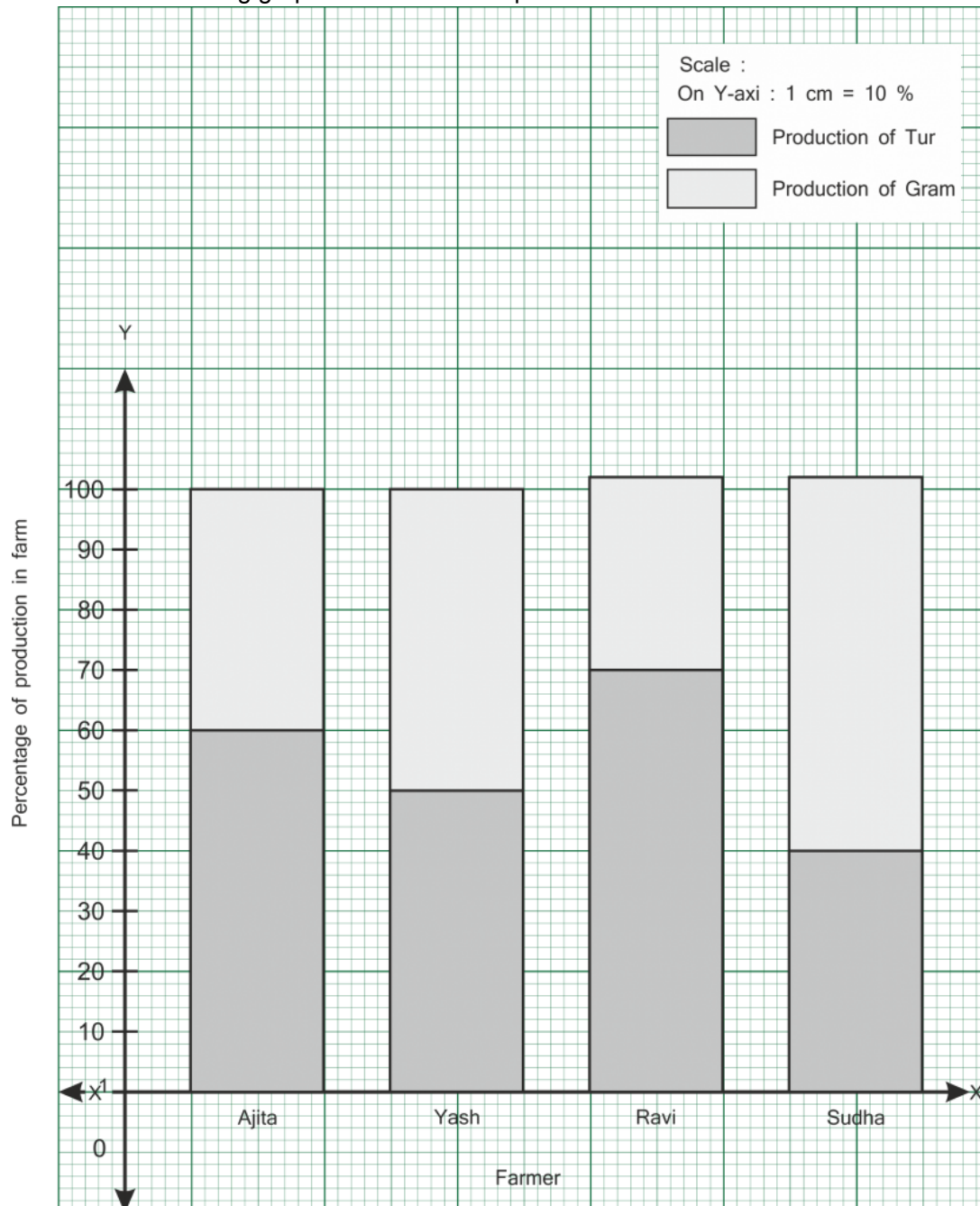
- 1) Division of a polynomial by a monomial
 $(25m^4 - 15m^3 + 10m + 8) \div 5m^3$
- 2) $(16a^3 - 8a^2) \div 8a$
- 3) Draw a line m. Draw a line n which is parallel to line m at a distance of 4 cm from it.
- 4) $-72x^3y^2$ by $-8x^2y$

- 5) The number of Science and Mathematics projects submitted by Model high school, Nandpur in last 20 years at the state level science exhibition is :
2, 3, 4, 1, 2, 3, 1, 5, 4, 2, 3, 1, 3, 5, 4, 3, 2, 2, 3, 2. Prepare a frequency table and find the mean of the data.
- 6) Compare the following numbers.
 $\frac{15}{12}$ ' $\frac{7}{16}$

Q.3 Solve the following questions. (Any four)

(12)

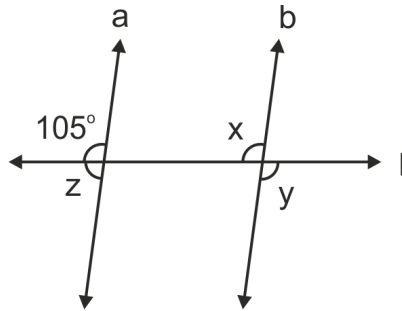
- 1) $(6a^3 - a^2 - 10a - 10) \div (2a - 3)$
- 2) Observe the following graph and answer the questions.



- i. State the type of the bar graph.
- ii. How much percent is the Tur production to total production in Ajita's farm ?

- iii. Compare the production of Gram in the farms of Yash and Ravi and state whose percentage of production is more and by how much ?
- iv. Whose percentage production of Tur is the least?
- v. State production percentages of Tur and gram in Sudha's farm.

3) In the given figure line $a \parallel$ line b , line l is a transversal. Find the measure of $\angle x$, $\angle y$, $\angle z$ using the given information.



4) Show the following numbers on a number line. Draw, a separate number line for each example.

$$\frac{-5}{8}, \frac{11}{8}$$

5) $(6p^3 - 11p^2 + 7p + 5) \div (2p - 3)$

Q.4 Answer the following (Any two)

(8)

1) The following data is collected in a survey of some students of 10th standard from some schools. Draw the percentage bar graph of the data.

School	1 st	2 nd	3 rd	4 th
Inclination towards science stream	90	60	25	16
Inclination towards commerce stream	60	20	25	24

2) Write the following rational numbers in decimal form.

$$\frac{-65}{21}$$

3) In the given figure line $p \parallel$ line q , line $l \parallel$ line m find measure $\angle a$, $\angle b$ and $\angle c$ using the measure of given angles. Justify your answer.

