



Ministry of Education
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G/ Southlands College

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First Term Test- 2018

Mathematics

Grade

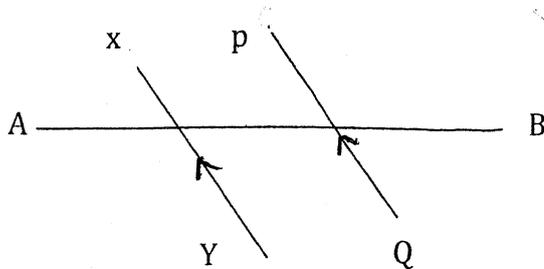
Duration : 1 hour

Part 1

1) Answer all the questions

1. Find the digital root of 1436.
2. Write 81 in index notation with 3 as the base.
3. Simplify $20 \div (3+2)$
4. Find the LCM of 36 and 48
5. Find the value of $(-12) + (+7)$
6. Draw the angle $\angle A^{\hat{B}C} = 50^\circ$
7. Draw a figure with only one axis of symmetry.
8. The number $17\overline{0}2$ is divisible by 6. Find the largest digit suitable for the empty space.
9. Find the value of $3^2 \times 2^3$

10. According to the given figure name a pair of parallel lines,



Part II

Answer all the questions

1. $A = \{\text{Prime numbers between 2 and 10}\}$

- i. Write down the set A by writing its elements within curly brackets.
- ii. Represent the set A by a Venn diagram.
- iii. $B = \{3, 6, 9, 12, 15, 18\}$ Write down the set B in terms of a common property of its elements.
- iv. Express 12 as a product of two factors.
- v. $\{\text{all the factors of 12}\}$ write the elements of the set within curly brackets.

2) Simplify

- i. $5 \times 4 + 9$
- ii. $30 \div 6 \times 12$
- iii. Express 100 as a product of its prime factors.
- iv. Write down the number 100 as a product of powers with prime numbers as bases.

3) .

- i. Find the value of a^3b^2 when $a=2$ $b=3$.
- ii. Find the value of $(+3) + (-1)$ using the number line-
- iii. Draw a straight line segment AB such that $AB=5\text{cm}$,
- iv. Name two locations where parallel lines can be observed in your day to day life .
- v. Write two instruments that you used to draw parallel lines in the classroom.

4) .

a.	Years	Months	Days
	2	5	17
	+3	9	29

- b. How many months are there in 2 years?
- c. Write down the decade and the century to which each one of the following years belongs

Year	decade	Century
2018		
2100		

- d. Choose the leap years from the years given below.
 - i. A 2020
 - ii. AD2300
 - iii. AD1800
- e. Indicate 320 days in months and days