

## FIRST TERM EVALUATION 2022 - 23

class : 7

Mathematics

Time : 2 Hours

Instructions

- 1) 15 Minutes is allotted as cool of time. Read the questions carefully
- 2) Eight activities are given. Answer any six.

Activity 1

- a) Draw a line AB of length 8 cm
- b) Mark the midpoint P on this line.
- c) Draw an angle of measure  $60^\circ$  at point P.
- d) Write its nearest angle.
- e) Extend the new line and find other 3 angles.

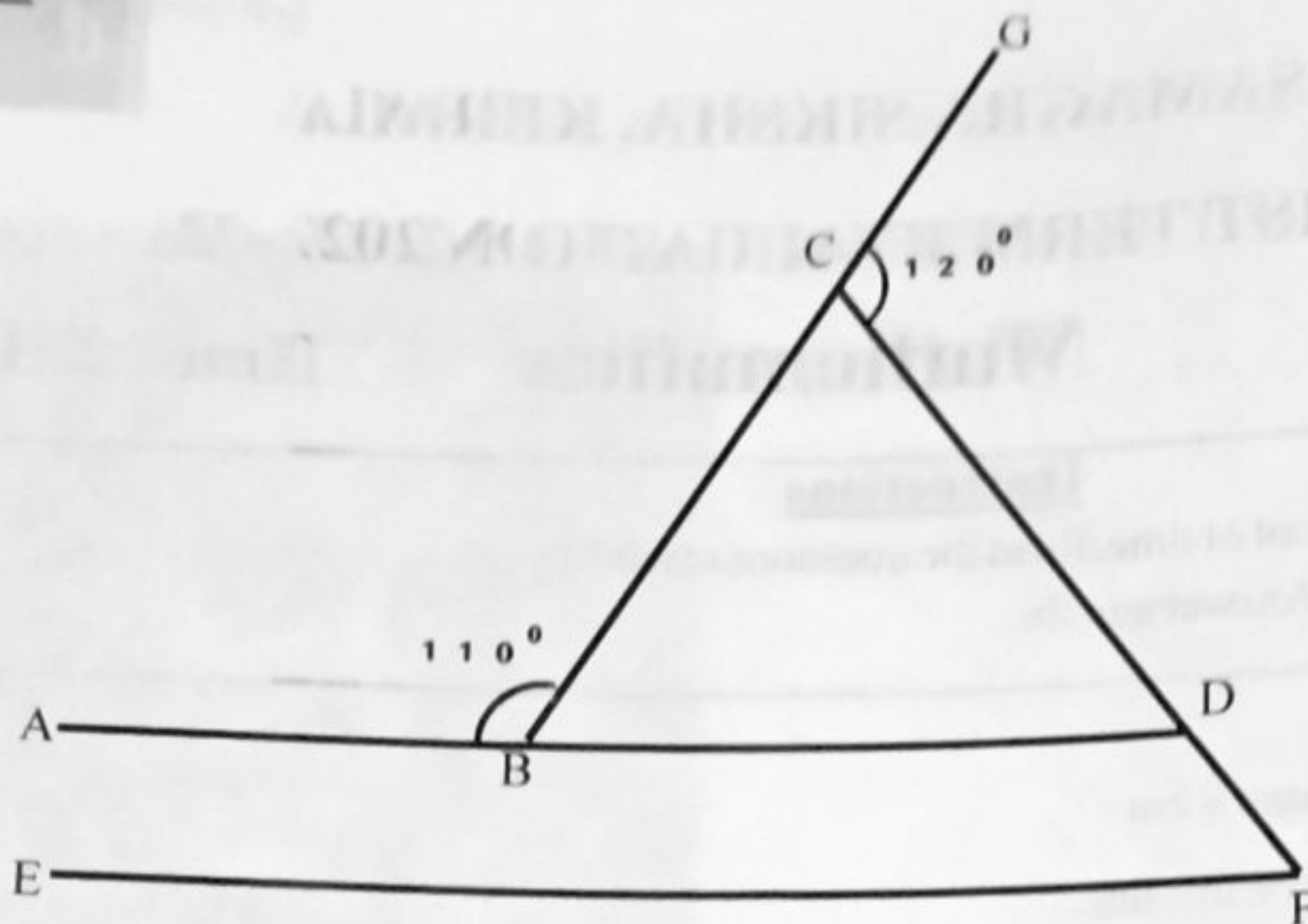
Activity 2

The picture given below is a part of calender.

2		
		11
	17	

- a) Complete the missing numbers in the square
- b) Find the sum of the numbers in all squares.
- c) Find the relation between the middle number and the sum
- d) If 'x' is the middle number, write the algebraic form of the numbers below and above it.



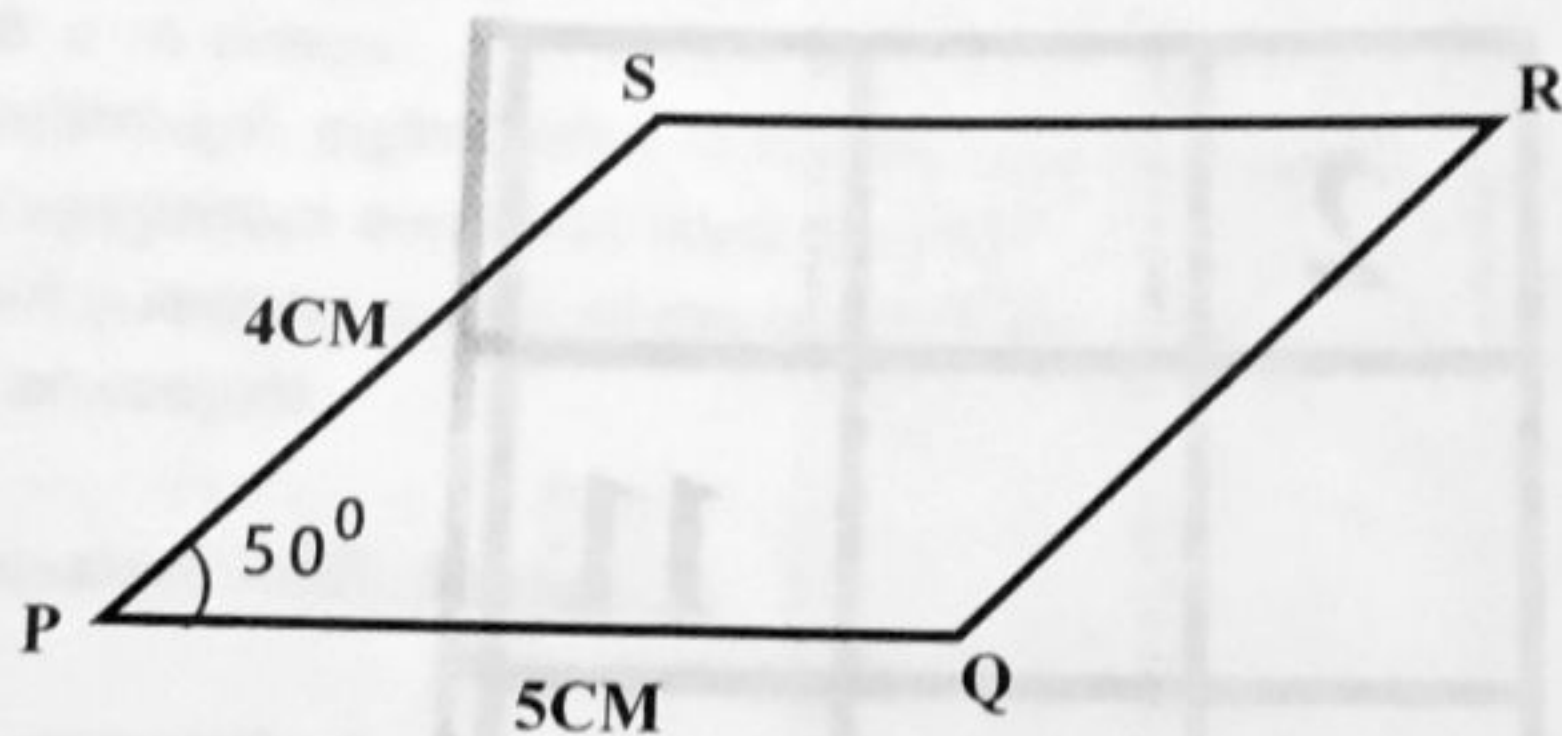
**Activity 3**

In the figure AD is parallel to EF.

- $\angle BCD = ?$
- Find the measures of other angles in triangle BCD.
- Which is the linear pair of  $\angle BDC$ ?
- Find the measure of  $\angle EFD$ ?

**Activity 4**

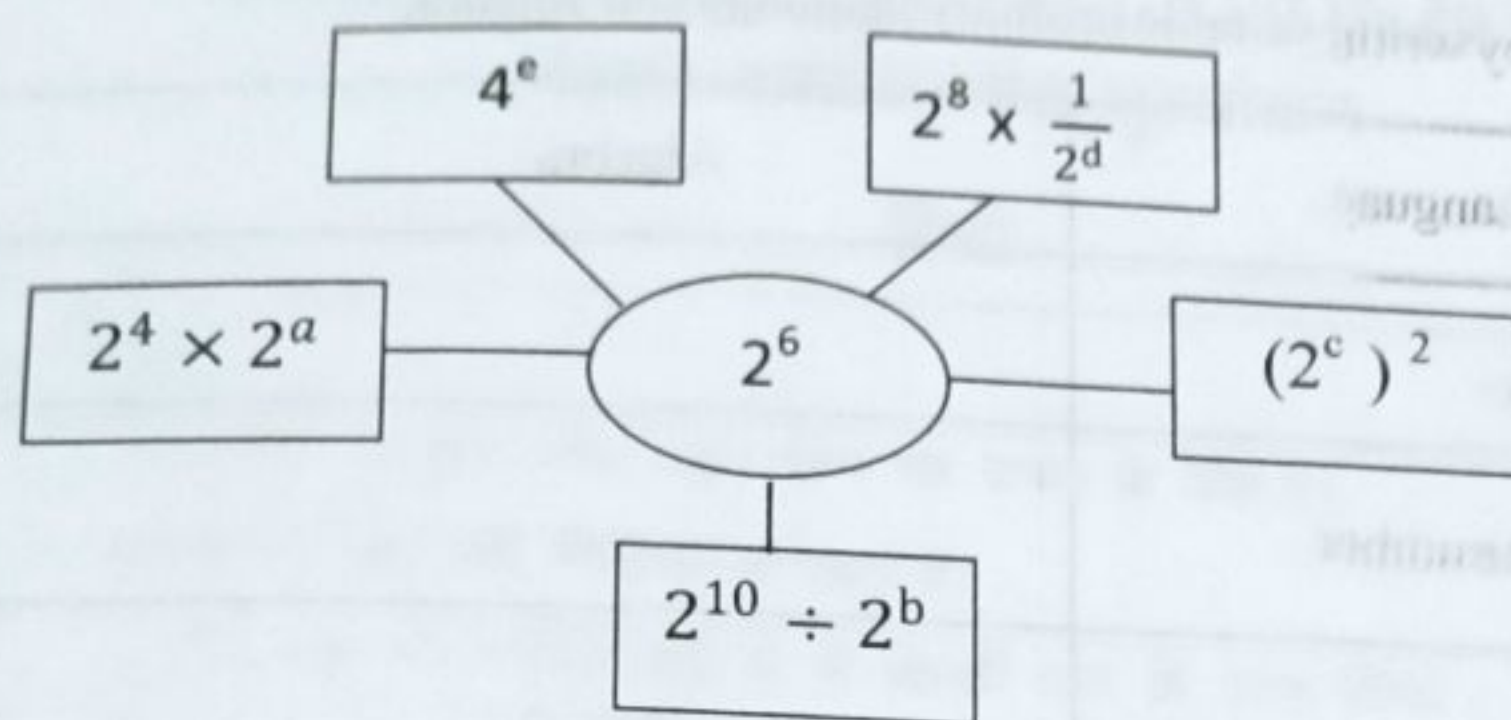
The figure PQRS is a parallelogram.



- Find its other angles.
- Draw a parallelogram whose adjacent sides are 6 cm and 5 cm and the angle between them is  $70^\circ$ .

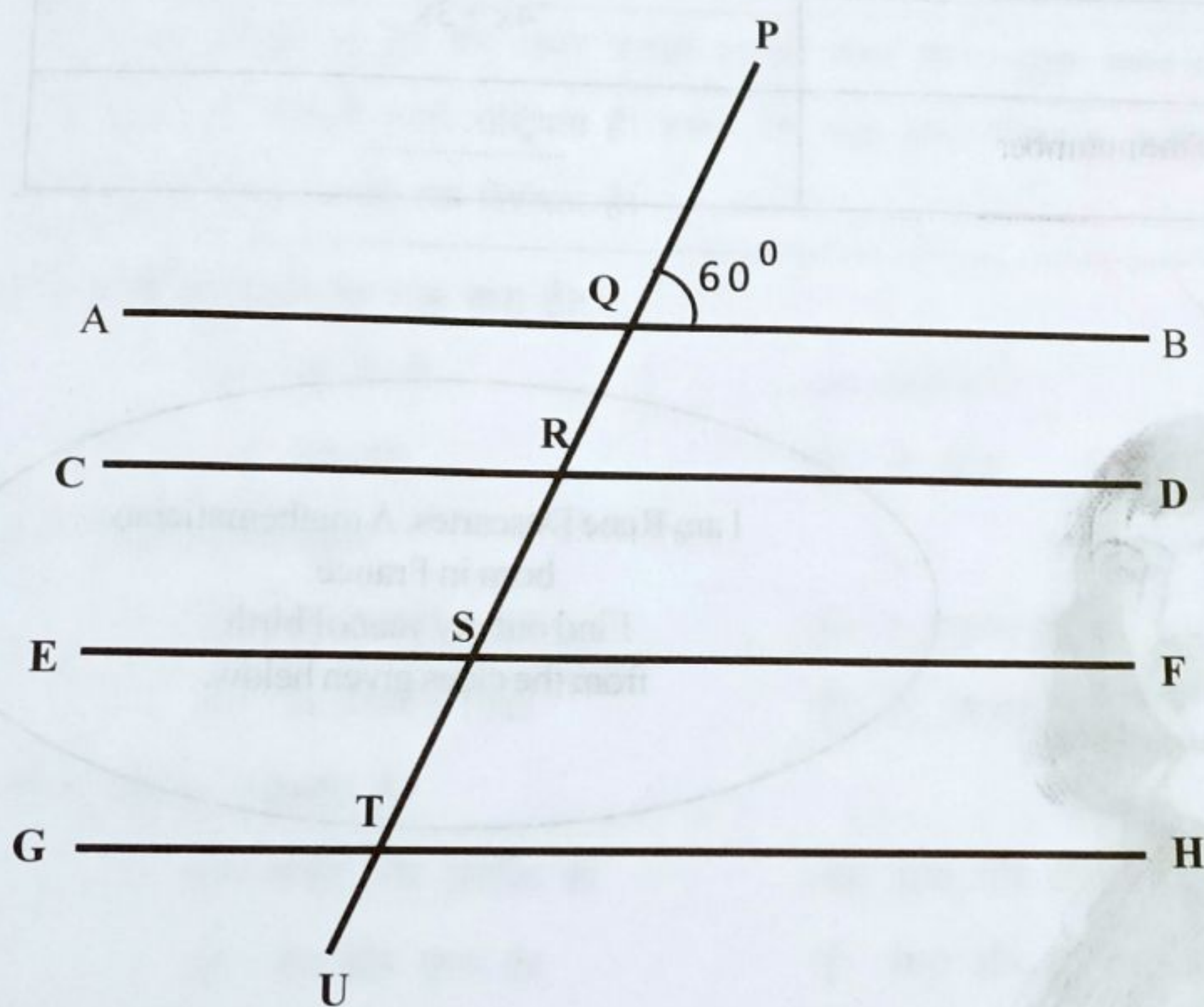


**Activity 5**



In the figure  $2^6$  is written in 5 different ways. Find the values a, b, c, d and e.

**Activity 6**



In the figure AB, CD, EF, GH are parallel to each other.

- If  $\angle PQB = 60^\circ$ , find  $\angle GTU$
- Find a co-exterior angle of  $\angle PQB$ .

Write the correct answers to the questions given below from the brackets.

[  $\angle BQS$ ,  $\angle ESR$ ,  $\angle HTS$  ]

- Which is the corresponding angle of  $\angle CRQ$ ?
- Which is the co-interior angle of  $\angle FST$ ?
- Which is the alternate angle of  $\angle ESQ$ ?



### Activity 7

Complete the table below by writing suitable ordinary language and algebra.

	Ordinary Language	Algebra
a.	Number	$x$
b.	Two times the number	.....
c.	.....	$5x - 2$
d.	Five added to two times the number.	.....
e.	.....	$4x + 3x$
f.	Half of the number	.....

### Activity 8



I am Rene Descartes. A mathematician born in France.  
Find out my year of birth from the clues given below.

- The first digit is the value of  $1^{1000}$ . Find the first digit.
- The second digit is the value of  $\frac{5^{10}}{5^3 \times 5^6}$ . Find the second digit.
- The third digit is  $\frac{(3^2)^3}{3^4}$ . Find the third digit.
- The fourth digit is the number of zeros in the value of  $10^6$ . Find the fourth digit.
- In which year was I born?