

## Mathematics

### Short quiz

Answer all questions below

1. Write in index form

(a)  $x^5 \div x^3$

(b)  $3 \times a^2 \times 6 \times b \times a \times b$

=

=

2.



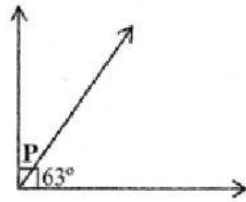
(a) Using  $x$  as the unknown number, write down the equation to represent Rodney's thought.

(b) Solve the equation for  $x$ .

$x =$

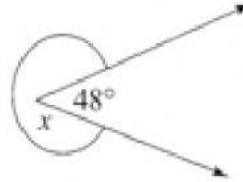
3. Find the size of the angle marked with a letter

(i)



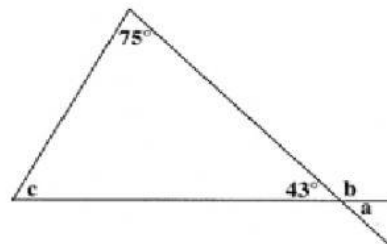
$$P^\circ =$$

(ii)



$$x^\circ =$$

(iii)



$$a =$$

$$b =$$

$$c =$$

4. Write down the numbers between 20 and 31 which have two factors

5. Write order from the greatest to the least

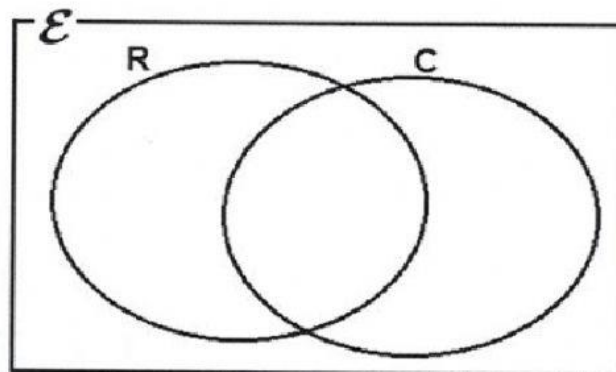
-8, 8, 0, -9, 4, 1, 9

6. (a)

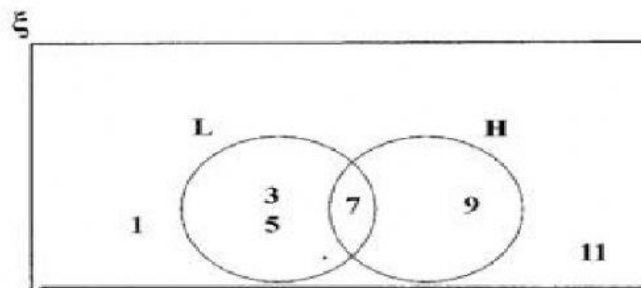
23 students were asked whether they like chicken or ribs.

- 3 students liked ribs only.
- 10 students liked both ribs and chicken.
- 14 students liked chicken.
- 6 liked neither ribs nor chicken.

Complete the Venn diagram below to show this information.



(b)



Use the Venn diagram above to answer the following questions.

(a)  $\bar{U} = \{ \quad \quad \quad \}$

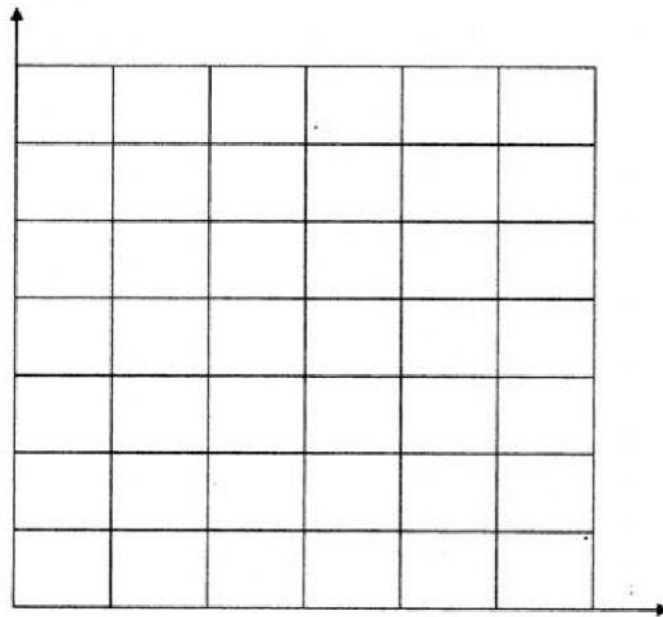
(b)  $L = \{ \quad \quad \quad \}$

(c)  $L' = \{ \quad \quad \quad \}$

(d)  $n(L \cup H)$

7. (a) Plot and label in order, the given points A, B, C, and D on the grid

A ( 1, 1)      B(4, 0)      C(4, 6)      D(1, 3)



- (b) Write the geometrical name of this quadrilateral.