

Class: Nine

Subject- Social Studies

Read Unit One Topic Types of society and its components

Subject – HPE

Write an essay on Relationship between Health, population and Environment Education.

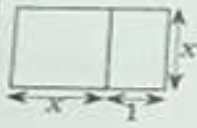
Subject – Mathematics

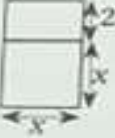
Complete 1,2&3 of 6.1


EXERCISE 6.1


General section

1. In each of the following figures, write the polynomial as the product of its factors.

a) 

b) 

c) 

d) 

Creative section

2. Factorise

a) $2ax + 4bx$	b) $4p^2 - 6p$	c) $6a^2b + 9ab^2$
d) $2px^2 - 4px + 6p^2x$	e) $6x^3y^2 + 9x^2y^3 - 3x^2y^2$	f) $2x(a + b) + 3y(a + b)$
g) $3a(x - y) - (x - y)$	h) $x(x + 2) + 3x + 6$	i) $2t(t - 1) - t + 1$

3. Resolve into factors.

a) $ax + by + ay + bx$	b) $pm - qn + pn - qm$	c) $a^2 + ab + ca + bc$
d) $mx^2 + my^2 - nx^2 - ny^2$	e) $xy - 2y + 3x - 6$	f) $x^2 + 4x + 3x + 12$
g) $p^2 - 8p - p + 8$	h) $16x^2 - 4x - 4x + 1$	i) $a^2 - a(b + c) + bc$
j) $x^2 - (y - 3)x - 3y$	k) $pq(r^2 + 1) - r(p^2 + q^2)$	l) $y(x + z) + z(x + y) + yz$

4. Simplify.

a) $\frac{a^2 + a}{2ab + 2b}$	b) $\frac{3x^2 - 6xy}{2xy - 4y^2}$	c) $\frac{6p^2 - 2p}{3p^2 - p + 3p - 1}$
d) $\frac{2x^2 - xy + 2xy - y^2}{6xy - 3y^2}$	e) $\frac{x^2 + 2x + x + 2}{x^2 - 3x + 2x - 6}$	f) $\frac{x^2 - 4x - 3x + 12}{x^2 - 4x + 2x - 8}$

Vedanta Excel in Mathematics

