Home work

Class - IX Session - 2020-21

Sub: Maths

Ch-1 : (Number System)

★ Write, learn & understand the following terms & their definations:
Natural number, whole number, Even number, odd number, prime number, composite number, co-prime number, rational number and irrational number.

Q Give some examples of rational & irrational number.

Q Convert into p/q rational number.
$0.\overline{2}$, $1.\overline{21}$, $1.2\overline{7}$

Q Give some examples of terminating & non-terminating decimals.

Q Rationalise the following :
a) $\frac{1}{\sqrt{7}}$ b) $\frac{1}{2+\sqrt{7}}$ c) $\frac{3+\sqrt{2}}{3-\sqrt{2}}$

Scanned with CamScanner

Q Simplify: a) $(3+\sqrt{2})\ (3-\sqrt{2})$
b) $(5+\sqrt{3})\ (5+\sqrt{3})$
c) $(5-\sqrt{2})\ (5-\sqrt{2})$
d) $(7+\sqrt{11})\ (3-\sqrt{2})$

Q Find ten rational number between 3 & 4.

Q Evaluate: a) $\frac{7^{12}}{7^5}$ b) $(32)^{\frac{1}{5}}$, c) $(64)^{\frac{1}{2}}$
d) $7^0 + 6^0$ e) $17^0 \times 10^0$ f) $7^{12} \times 7^5$

Q Evaluate: a) $(3+\sqrt{2}) + (3-\sqrt{2})$
b) $5\sqrt{5} - 3\sqrt{3} - 2\sqrt{5} - 4\sqrt{3}$
c) $2\sqrt{7} - 11\sqrt{7} + 13\sqrt{5} - 2\sqrt{7}$

Q Multiply: a) $3\sqrt{9} \times 3\sqrt{3}$
b) $16\sqrt{2} \times 4\sqrt{6}$

Q Divide: a) $48\sqrt{12} \div 2\sqrt{3}$
b) $15\sqrt{3} \div 3\sqrt{3}$

—X—

"STAY AT HOME" "BE SAFE"

Scanned with CamScanner