



SNBP International & Senior Secondary School, Chikhali, Pune
Affiliation No. 1130703
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Revision Worksheet - 03



Name: _____

Date : _____

Class: 7 Div: _____

Subject: Math

Prepared By: Ms. Snehal Devake

Ch 8, Ch 10, Ch 11

Q.1) Simplify:

a) $\frac{-5}{9} \times \frac{2}{5} \times \frac{-9}{8}$

b) $\frac{-14}{15} + \left(\frac{-3}{5}\right)$

c) $\frac{2}{3} + \frac{5}{4} + \frac{7}{12}$

d) $\frac{-18}{27} \div \frac{-15}{9}$

e) $\frac{-4}{5} \div (-3)$

f) $5\frac{2}{5} - \left(\frac{3}{5}\right)$

g) $\frac{-4}{3} - \frac{6}{7}$

h) $\frac{5}{7} \times \frac{7}{6}$

i) $\frac{-4}{5} + \left(\frac{-7}{10}\right)$

Q.2) Give four rational numbers equivalent to: a) $\frac{-2}{7}$ b) $\frac{3}{-5}$

Q.3) Draw the number line and represent the following rational numbers on it: a) $\frac{7}{6}$ b) $\frac{-5}{8}$

Q.4) Rewrite the following rational numbers in the simplest form:

a) $\frac{19}{57}$

b) $\frac{-36}{99}$

Q.5) Fill in the boxes with the correct symbol out of $>$, $<$, and $=$.

a) $\frac{7}{4} \square \frac{13}{4}$

b) $\frac{3}{7} \square \frac{3}{9}$

Q.6) Write four more rational numbers in each of the following patterns:

a) $\frac{5}{9}, \frac{10}{18}, \frac{15}{27}, \frac{20}{36}$

b) $\frac{-4}{6}, \frac{-8}{12}, \frac{-12}{18}, \frac{-16}{24}$

Q.7) Classify into monomials, binomials and trinomials.

a) $3y - z$

b) $-6q$

c) $5x + 7y - xy$

d) $4p + 9q$

e) $4x^2 - 2y^2 + xy$

f) $10t$

Q.8) Identify the terms and their factors in the following expressions. Show the terms and factors by tree diagram.

a) $6x - 3$

b) $8 + 5x + x^2$

c) $7y - y$

Q.9) State whether a given pair of terms is of like or unlike terms.

a) $-5, 400$

b) $-5x, \frac{4}{7}x$

c) $-30x, 3y$

d) $17xy, 6yx$

e) $9m^2p, 9mp^2$

Q.10) Simplify these expressions and find their values if $x = 4$, $a = 3$, $b = -2$.

a) $4x + 5 - 7x + 3$

b) $2a + 2b - 14 - 5 + a$

Q.11) Simplify the expression $6(a^2 + ab) - 8 + 4ab$ and find its value when $a = 4$, $b = -3$.

Q.12) If $a = 5$, $b = -2$, find the value of:

a) $6a^2b + 2ab^2 + ab$

b) $2a - 5b$

c) $\frac{3a}{4} - 2b + 5$

d) $7a - 3b + 7 - 5 + a$

Q.13) What should be the value of a if the value of $6x^2 + 3x - a$ equals to 8, when $x = 0$?

Q.14) Simplify the expressions and find the value if x is equal to 3.

a) $x + 3 + 8(x - 3)$

b) $3(x - 2) + 7x - 9$

Q.15) Simplify:

a) $(3)^3 \times (-5)^2$

b) $(-4)^4$

c) 4×30^2

d) $\frac{30 \times 5^4 \times 12}{5^3 \times 32}$

Q.16) Using laws of exponents, simplify and write the answer in exponential form.

a) $6^3 \times 4^4$

b) $(3^2)^3 \div 3^3$

c) $(5^{15} \div 5^{12}) \times 5^6$

Q.17) Express each of the following as a product of prime factors only in exponential form.

a) 204×196

b) 385

Q.18) Simplify and express each of the following in exponential form.

a) $\frac{2^3 \times 3^4 \times 4}{3^3 \times 30}$

b) $((3^4)^3 \times 3^2) \div 3^7$

c) $(4^0 + 8^0) \times 4^0$

d) $(\frac{a^4}{a^3}) \times a^4$

Q.19) Write the following numbers in the expanded form.

a) 7609502

b) 67308123

Q.20) Find the number from each of the following expanded forms.

a) $(6 \times 10)^4 + (7 \times 10)^3 + (8 \times 10)^2 + (2 \times 10)^1 + (3 \times 10)^0$

b) $(7 \times 10)^5 + (9 \times 10)^1 + (5 \times 10)^0$

Q.21) Express the following numbers in standard form.

a) $2,04,40,000$

b) $8,96,00,00,000$

c) $6,46,02,015$

d) 15972.35

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