



Name: _____

Class: 7 Div: _____

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Date :

Subject: Math

Ch 11 – Exponents And Power

Q.1) Simplify:

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

b) $(-3)^4$

c) 0×30^2

d) $2^3 \times 2^2$

e) $\frac{30 \times 5^4 \times 16}{5^3 \times 32}$

f) $\frac{(2^3) \times 5^4 \times 4}{4^3 \times 25}$

Q.2) Express each of the following numbers using the exponential notation.

a) 4096

b) 3125

c) 3750

Q.3) Using laws of exponents, simplify and write the answer in exponential form.

a) $6^2 \times 4^4$

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

c) $7^{13} \div 7^3$

d) $4^5 \times 4^2 \times 4^3$

e) $(7^{15} \div 7^{12}) \times 7^6$

Q.4) Express each of the following as a product of prime factors only in exponential form.

a) 104×176

b) 365

c) 729×72

Q.5) Simplify and express each of the following in exponential form.

a) $\frac{2^3 \times 5^4 \times 4}{3^3 \times 32}$

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

c) $\frac{6^4}{2^3 \times 2^4}$

d) $(4^0 + 5^0) \times 4^0$

e) $(\frac{b^4}{b^3}) \times b^4$

Q.6) Write the following numbers in the expanded form.

a) 7659502

b) 84300123

Q.7) Find the number from each of the following expanded forms.

a) $(4 \times 10)^4 + (7 \times 10)^3 + (3 \times 10)^2 + (5 \times 10)^1 + (2 \times 10)^0$

b) $(8 \times 10)^5 + (7 \times 10)^1 + (3 \times 10)^0$

Q.8) Express the following numbers in standard form.

a) 8,94,50,000

b) 6,39,00,00,000

c) 9,46,82,015

d) 4582.35

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