



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Arithmetic

Duration: 40 min

Class: 7

Worksheet 6

EXPONENTS

Date: 20. 04.20

Full Marks: 15

Choose the Correct options:

1) What is the value of $(3^0 - 4^0) \times 5^2$?

A) 25

B) 0

C) -25

D) 1

2) What is the value of $(16/81)^2$?

A) $9/2$

B) $2/9$

C) $(2/3)^8$

D) $27/8$

3) Which of the following is true?

A) $10 \times 10^{11} = 100^{11}$

B) $2^3 \times 3^2 = 6^5$

C) $2^3 > 3^2$

D) $p^0 = 1000^0$

4) What is the value of $(12 \times 3^0 - 8 \times 5^0)$?

A) 12

B) 2

C) 4

D) 14

5) A Find the value of $2^0 + 3^0 + 4^0$.

A) 3

B) 234

C) 1

D) 24

6) What is the value of $2^7 \times 5^3$?

A) 7500

B) 16000

C) 11200

D) 14000

7) Which of the following is the least?

$(-1)^3, (-10)^3, (1)^5$ and $(-1)^4$

A) 1^5

B) $(-10)^3$

C) $(-1)^4$

D) $(-1)^3$

8) Write $a \times a \times a \times c \times c \times c \times c \times d \times d$ in exponential form.

A) $a^3 c^3 d^3$

B) $a^3 c^3 d$

C) $a^3 c^3 d^2$

D) $a^3 c^4 d^2$

9) $(-11)^2 \times (-11)^4 = (-11)^x$. What is the value of x?

A) 2

B) 4

C) 6

D) -2

10) Which of the following statements is correct?

A) $(2^3)^2$ and $(3^2)^4$ are not the same.

B) $(2^3)^2$ and $(3^4)^2$ are the same.

C) $(7^{50})^2 = 7^{502}$

D) $(5^7)^3 = 5^{73}$

11) Evaluate $(5/6)^5$.

A) $(6/5)^5$

B) $(5^6)^5$

C) $5^5/6^5$

D) $(5^5)^6$

12) Which of the following values are equal?

(i) 1^4 (ii) 4^0 (iii) 0^4 (iv) 4^1

A) (i) and (ii)

B) (ii) and (iii)

C) (i) and (iii)

D) (i) and (iv)

13) What is the sum of the powers of the prime factors in 108×192 ?

A) 5

B) 7

C) 8

D) 12

14) Express $(-2)^3 \div m^3$ in the form $(a/b)m$.

A) $-2^3/m^3$

B) $(-2/m)^3$

C) $(-2)^3 m^3$

D) $(-2/m)(-2/m)$

15) What is the value of $[(1/4)^2 - (1/4)^3] \times 2^6$?

A) 1

B) 2

C) 3

D) 4