

St. Andrews Scots Sr. Sec. School

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Session:2025-26

Worksheet

Class: VIII	Subject: Mathematics	Topic: Exponent And Power	Worksheet 3
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1. $a^m \times a^n$ is equal to

(a) $a^{(m+n)}$

(b) $a^{(m-n)}$

(c) a^{mn}

(d) $a^{(n-m)}$

2. $a^m \div a^n$ is equal to

(a) $a^{(m-n)}$

(b) $a^{(m+n)}$

(c) a^{mn}

(d) $a^{(n-m)}$

3. $(a^m)^n$ is equal to

(a) a^{m+n}

(b) a^{m-n}

(c) a^{mn}

(d) a^{n-m}

4. If $a \neq 0$, then the value of a^0 is

(a) 0

(b) 1

(c) 2

(d) -1

5. Find the multiplicative inverse for the given expression. The expression is 7^{-2}

(a) 7^2

(b) 7



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(c) $1/7^2$

(d) $1/7$

6. $2^2 \times 2^3 \times 2^4$ can be expressed as

(a) 2^{24}

(b) 2^{-5}

(c) 2^9

(d) 2^{-9}

7. $(-1)^{20} =$

(a) -1

(b) 1

(c) 0

(d) 20

8. In 10^2 , the exponent is

(a) 1

(b) 2

(c) 10

(d) 1.

9. The multiplicative inverse of $2/3$ is

(a) $2/3$

(b) $3/2$

(c) 3

(d) 1

10. $3^2 \times 3^{-4} \times 3^5$ is equal to

(a) 3

(b) 3^2

(c) 3^3

(d) 3^5



11. 149600000000 is equal to

- (a) 1.496×10^{11}
- (b) 1.496×10^{10}
- (c) 1.496×10^{12}
- (d) 1.496×10^8

12. 0.00001275 is equal to

- (a) 1.275×10^{-5}
- (b) 1.275×10^{-3}
- (c) 1.275×10^4
- (d) 1.275×10^3

13. The value of 2^{-2} is

- (a) 4
- (b) $\frac{1}{4}$
- (c) 2
- (d) $\frac{1}{2}$

14. The multiplicative inverse of is

- (a) 2^{-2}
- (b) 2^2
- (c) 2
- (d) 1

15. $3^{-2} \times 3^{-5}$ is equal to

- (a) 3^{-7}
- (b) 3^{-3}
- (c) 3^{-10}
- (d) 3^7

