



# Integers & Exponents

Math

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 The integer 6, raised to the zero power equals \_\_\_\_\_.  
Circle the answer.  $6^0$

0      1      6      -6

6 Multiply the integers.  
 $7^3 \times 7^2 =$  \_\_\_\_\_

$7^2$        $7^5$        $49^1$        $49^5$

2 Multiply the integers with the same base:  
 $6^5 \times 6^4 =$  \_\_\_\_\_

$36^1$        $36^9$        $6^1$        $6^9$

7 Circle the answer.  
 $3x^8 \times 9x^0 =$  \_\_\_\_\_

$27x^9$        $27x^8$        $10x^9$        $12x^8$



## PREVIEW

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4 Circle the answer.  
 $16^3 \times 16^{13} =$  \_\_\_\_\_

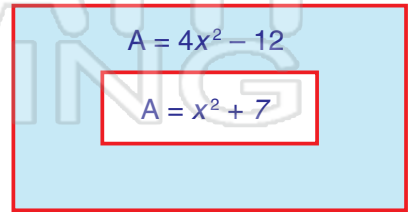
$16^3$        $16^{13}$        $4^3$        $4^{13}$

c.  $5.49 \times 10^{-5}$   
d.  $5.49 \times 10^5$

5 Circle the answer.  
 $2x^3 \times 2x =$  \_\_\_\_\_

$4x^4$        $2x^4$        $4x^2$        $2x^2$

10 What is the area of the shaded region in terms of x?  
a.  $3x^2 - 5$   
b.  $3x^2 - 19$   
c.  $5x^2 - 5$   
d.  $5x^2 - 19$





# Integers & Exponents - Answer Key

Math

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 The integer 6, raised to the zero power equals \_\_\_\_\_.  
Circle the answer.  $6^0$

- 0
- 1
- 6
- 6

6 Multiply the integers.

$7^3 \times 7^2 = \underline{\hspace{2cm}}$

- 7<sup>2</sup>
- 7<sup>5</sup>
- 49<sup>1</sup>
- 49<sup>5</sup>

2 Multiply the integers with the same base:

$6^5 \times 6^4 = \underline{\hspace{2cm}}$

- 36<sup>1</sup>
- 36<sup>9</sup>
- 6<sup>1</sup>
- 6<sup>9</sup>

7 Circle the answer.

$3x^8 \times 9x^0 = \underline{\hspace{2cm}}$

- 27x<sup>9</sup>
- 27x<sup>8</sup>
- 10x<sup>9</sup>
- 12x<sup>8</sup>

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4

- 16<sup>3</sup>
- 16<sup>13</sup>
- 4<sup>3</sup>
- 4<sup>13</sup>

5 Circle the answer.

$2x^3 \times 2x = \underline{\hspace{2cm}}$

- 4x<sup>4</sup>
- 2x<sup>4</sup>
- 4x<sup>2</sup>
- 2x<sup>2</sup>

c.  $5.49 \times 10^{-5}$

d.  $5.49 \times 10^5$

10 What is the area of the shaded region in terms of x?

- a.  $3x^2 - 5$
- b.  $3x^2 - 19$
- c.  $5x^2 - 5$
- d.  $5x^2 - 19$

