

## Chapter 1 HW

1. Find the value of the power.

$$8^2 = \square$$

Grade 6 Accel: FL 2023>Chapter 1>Section 1.1: Powers and Exponents>1.1: In-Class Practice (13 - 18)> Question #13

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2. Find the value of the power.

$$3^5 = \square$$

Grade 6 Accel: FL 2023>Chapter 1>Section 1.1: Powers and Exponents>1.1: In-Class Practice (13 - 18)> Question #14

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3. **WHICH ONE DOESN'T BELONG?** Which one does *not* belong with the other three?

- $2^4 = 2 \times 2 \times 2 \times 2$
- $3^2 = 3 \times 3$
- $3 + 3 + 3 + 3 = 3 \times 4$
- $5 \cdot 5 \cdot 5 = 5^3$

Explain your reasoning.

**B**

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U

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$T^2$

$T_2$

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4. Complete the table.

Repeated Factors	Using an Exponent	Value
$4 \times 4 \times 4$	<input type="text"/>	<input type="text"/>

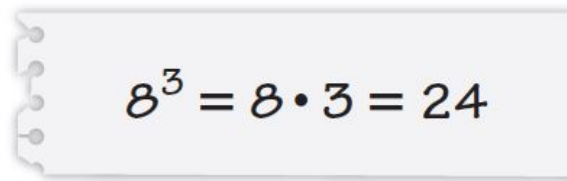
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5. Write  $7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$  as a power.

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 = \square$$

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6. **YOU BE THE TEACHER** Your friend finds the value of  $8^3$ .


$$8^3 = 8 \cdot 3 = 24$$

Is your friend correct?

- yes
- no

Explain your reasoning.

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7. Determine whether 4 is a perfect square.

- perfect square
- not a perfect square

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8. Evaluate  $7 + 2 \cdot 4$ .

$$7 + 2 \cdot 4 = \square$$

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9. Evaluate  $8 \div 4 \times 2$ .

$$8 \div 4 \times 2 = \square$$

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10. Evaluate  $3(5 + 1) \div 3^2$ .

$$3(5 + 1) \div 3^2 = \square$$

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11. **WHICH ONE DOESN'T BELONG?** Which expression does *not* belong with the other three?

- $5^2 - 8 \times 2$
- $5^2 - (8 \times 2)$
- $5^2 - 2 \times 8$
- $(5^2 - 8) \times 2$

Explain your reasoning.

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12. Tell whether 9 is prime or composite.

- prime
- composite

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13. Tell whether 11 is prime or composite.

- prime
- composite

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14. Find the value of the expression by using different orders of operations.

Add, then multiply.

$$4 + 6 \times 6 = \square$$

Multiply, then add.

$$4 + 6 \times 6 = \square$$

Are your answers the same?

yes

no

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15. Evaluate  $(5^2 - 2) \times 1^5 + 4$ .

$$(5^2 - 2) \times 1^5 + 4 = \square$$

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16. Evaluate  $4 + 2 \times 3^2 - 9$ .

$$4 + 2 \times 3^2 - 9 = \square$$

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17. Use properties of operations to evaluate the expression.

$$6 \times 1 \times 4 = \square$$

Explain each step.

<b>B</b> <i><b>I</b></i> <u><b>U</b></u>   <b>:</b> ≡ $\frac{1}{2}$ ≡ <b>T</b> <sup>2</sup> <b>T</b> <sub>2</sub>
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18. Use properties of operations to evaluate the expression.

$$7(10 - 2) = \square$$

Explain each step.

<b>B</b> <i><b>I</b></i> <u><b>U</b></u>   <b>:</b> ≡ $\frac{1}{2}$ ≡ <b>T</b> <sup>2</sup> <b>T</b> <sub>2</sub>
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19. Use the Distributive Property to evaluate the expression.

$$7(5 - 3) = \square$$

Explain each step.

<b>B</b> <i><b>I</b></i> <u><b>U</b></u>   <b>:</b> ≡ $\frac{1}{2}$ ≡ <b>T</b> <sup>2</sup> <b>T</b> <sub>2</sub>
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20. Write 63 as a product of as many factors as possible. Do not use 1 as a factor.

$$63 = \square$$

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21. Which are the factor pairs of 34?

1, 34

2, 17

3, 11

4, 8

5, 29

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22. Which are the factor pairs of 39?

1, 39

2, 18

3, 13

4, 9

5, 34

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23. Write the prime factorization of 25.

25 =

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24. **MAKING AN ARGUMENT** Is 2 the only even prime number?

yes

no

Explain.

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25. Find the GCF of 16 and 40.

The GCF is .

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26. Write the fraction in simplest form.

$$\frac{8}{16} = \square$$

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27. Write the fraction in simplest form.

$$\frac{21}{70} = \square$$

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28. Find the GCF of 18, 54, and 90.

The GCF is .

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29. Find the LCM of 11 and 12 using lists of multiples.

The LCM is .

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30. Find the LCM of 12 and 18 using lists of multiples.

The LCM is .

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