

Name: Class:

Write powers of 10 with exponents

► Rewrite the following numbers using powers of 10.

- | | | | | | |
|----|-------------------------------|-----------------------------|---------------------------------|----|------------------------------------|
| 1. | $10,000 = 10^4$ | 3. | $100,000,000 = \dots\dots\dots$ | 5. | $10 = \dots\dots\dots$ |
| 2. | $1,000,000 = \dots\dots\dots$ | 4. | $100,000 = \dots\dots\dots$ | 6. | $100 = \dots\dots\dots$ |
| | 7. | $100,000 = \dots\dots\dots$ | | 8. | $10,000,000,000 = \dots\dots\dots$ |

► Rewrite the following numbers using powers of 10.

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|----|--|----|--|----|---------------------------------------|
| 1. | $10^{\boxed{6}} = 1,000,000$ | 3. | $10^{\boxed{}} = 1,000,000$ | 5. | $10^{\boxed{}} = 10,000$ |
| 2. | $10^{\boxed{}} = 100,000$ | 4. | $10^{\boxed{}} = 10$ | 6. | $10^{\boxed{}} = 1$ |

► In each case, tick the correct answer.

1. What is the exponent expression of $10 \times 10 \times 10 \times 10 \times 10 \times 10$?
- 10^6
 10^5
 10^{10}
 5^{10}
 10^7
2. What is the corresponding exponent of $10^{\boxed{2}} = 100,000,000$?
- 7
 8
 10
 100
 10^2
2. What is the corresponding exponent of $10^{\boxed{2}} = 10$?
- 10
 11
 2
 0
 1

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- | | | |
|-----------------------|-------------------------------|-----------------|
| 1. $10,000 = 10^4$ | 3. $100,000,000 = 10^8$ | 5. $10 = 10^1$ |
| 2. $1,000,000 = 10^6$ | 4. $100,000 = 10^5$ | 6. $100 = 10^2$ |
| 7. $100,000 = 10^5$ | 8. $10,000,000,000 = 10^{10}$ | |

► Rewrite the following numbers using powers of 10.

- | | | |
|----------------------------------|---------------------------------|------------------------------|
| 1. $10^{\boxed{7}} = 10,000,000$ | 3. $10^{\boxed{6}} = 1,000,000$ | 5. $10^{\boxed{4}} = 10,000$ |
| 2. $10^{\boxed{5}} = 100,000$ | 4. $10^{\boxed{1}} = 10$ | 6. $10^{\boxed{0}} = 1$ |

► In each case, tick the correct answer.

1. What is the exponent expression of $10 \times 10 \times 10 \times 10 \times 10 \times 10$?
- 10^6 10^5 10^{10} 5^{10} 10^7
2. What is the corresponding exponent of $10^{\boxed{2}} = 100,000,000$?
- 7 8 10 100 10^2
2. What is the corresponding exponent of $10^{\boxed{2}} = 10$?
- 10 11 2 0 1