

Name: ..... Class: .....

## Write powers of ten with exponents

Rewrite the following numbers using powers of 10.

a.  $1,000 = 10^3$

d.  $10,000,000 =$

g.  $10 =$

b.  $1,000,000 =$

e.  $10,000 =$

h.  $100 =$

c.  $100,000 =$

f.  $10,000,000,000 =$

Rewrite the following numbers using powers of 10.

i.  $10^{\boxed{7}} = 10,000,000$

k.  $10^{\boxed{\phantom{000}}} = 1,000,000$

m.  $10^{\boxed{\phantom{000}}} = 10,000$

j.  $10^{\boxed{\phantom{000}}} = 100,000$

l.  $10^{\boxed{\phantom{000}}} = 10$

n.  $10^{\boxed{\phantom{000}}} = 1$

In each case, tick the correct answer.

 o. What is the exponent expression of  $10 \times 10 \times 10 \times 10 \times 10 \times 10$ ?

$10^6$

$10^5$

$10^{10}$

$5^{10}$

$10^7$

 p. What is the corresponding exponent of  $10^{\boxed{2}} = 100,000,000$ ?

7

8

10

100

$10^2$

 q. What is the corresponding exponent of  $10^{\boxed{2}} = 10$ ?

10

11

2

0

1

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Write powers of ten with exponents

Rewrite the following numbers using powers of 10.

- |                       |                               |                 |
|-----------------------|-------------------------------|-----------------|
| a. 1,000 = $10^3$     | d. 10,000,000 = $10^7$        | g. 10 = $10^1$  |
| b. 1,000,000 = $10^6$ | e. 10,000 = $10^4$            | h. 100 = $10^2$ |
| c. 100,000 = $10^5$   | f. 10,000,000,000 = $10^{10}$ |                 |

Rewrite the following numbers using powers of 10.

- |                                  |                                 |                              |
|----------------------------------|---------------------------------|------------------------------|
| i. $10^{\boxed{7}}$ = 10,000,000 | k. $10^{\boxed{6}}$ = 1,000,000 | m. $10^{\boxed{4}}$ = 10,000 |
| j. $10^{\boxed{5}}$ = 100,000    | l. $10^{\boxed{1}}$ = 10        | n. $10^{\boxed{0}}$ = 1      |

In each case, tick the correct answer.

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