Name:
Class:

Multiply by a power of ten: with exponents.

Find the value of the following expressions.
a. $5 \times 10^{3}$
d. $7 \times 10^{2}$
b. $15 \times 10^{4}$
e. $92 \times 10^{3}$
c. $1 \times 10^{7}$
f. $\quad 70 \times 10^{5}$

## Solution

## mathskills kids

Name: $\qquad$ Class:

Multiply by a power of ten: with exponents.

Find the value of the following expressions.
a. $5 \times 10^{3}$

Let's multiply
$5 \times 10^{3}=5 \times(10 \times 10 \times 10)$

$$
=5 \times 1000
$$

$$
=5000
$$

So, $5 \times 10^{3}=5000$
d. $7 \times 10^{2}$

Let's multiply

$$
\begin{aligned}
7 \times 10^{2} & =7 \times(10 \times 10) \\
& =7 \times 100 \\
& =700
\end{aligned}
$$

So, $7 \times 10^{2}=700$
b. $15 \times 10^{4}$

> Let's multiply $\begin{aligned} 15 \times 10^{4} & =15 \times(10 \times 10 \times 10 \times 10) \\ & =15 \times 10000 \\ & =150000\end{aligned}$
e. $92 \times 10^{3}$

Let's multiply

$$
\begin{aligned}
92 \times 10^{3} & =92 \times(10 \times 10 \times 10) \\
& =92 \times 1000 \\
& =92000
\end{aligned}
$$

So, $92 \times 10^{3}=92000$
c. $1 \times 10^{7}$
Let's multiply
$1 \times 10^{7}=1 \times(10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10)$

$$
\begin{aligned}
& =1 \times 10000000 \\
& =10000000
\end{aligned}
$$

f. $70 \times 10^{5}$

Let's multiply
$70 \times 10^{3}=70 \times(10 \times 10 \times 10 \times 10 \times 10)$
$=70 \times 100000$
$=7000000$

So, $1 \times 10^{7}=10000000$

So, $70 \times 10^{5}=7000000$

