## Work with numbers greater than 1 in standard form

Complete the statements
a) $30,000=3 \times \square=3 \times 10^{4}$
b) $600,000=6 \times \square=6 \times 10 \square$
c) $700=7 \times \square=\square \times 10 \square$
d) $8,000,000=$

$\square$

e) three hundred thousand $=\square \times \square$ $=\square \times$
f) four billion $=$ $\square$
$\square$ $\square=$ $\square$
g) twenty million $=$ $\square$
$\square$
$\square$
2. Tick the numbers that are not in standard index form.

| $50 \times 10^{7}$ | $5 \times 10^{\frac{3}{4}}$ | $0.5 \times 10^{3}$ | $5 \times 10^{6}$ |
| :---: | :---: | :---: | :---: |
| $\frac{3}{4} \times 10^{5}$ | $6 \times 10^{72}$ | $9 \times 10^{1.5}$ | $1 \times 10^{1}$ |

(3) Write $>,<$ or $=$ to complete the statements.
a) 10,000

d) 20,000

b) 400,000

e) $3 \times 10^{7}$

c)

4) Write the standard form numbers as ordinary numbers.
a) $9 \times 10^{5}=$ $\square$
b) $8 \times 10^{7}=$ $\square$
c) $4 \times 10^{8}=$ $\square$
d) $6 \times 10^{3}=$ $\square$
e) $7 \times 10^{2}=$ $\square$
f) $10^{6}=$ $\square$
(5) Fill in the missing information.
a) $60,000=6 \times 10,000=6 \times 10^{4}$
b) $70,000=7 \times 10,000=\square \times 10^{4}$
c) $65,000=6.5 \times 10,000=$

d) $63,000=$

e) $780,000=\square \times 100,000=\square \times 10^{5}$

h) $834,000,000=$ $\square$

6) Write the numbers in standard index form.
a) $50,000=$ $\qquad$ d) $500,000=$ $\qquad$
b) $53,000=$ $\qquad$ e) $520,000=$ $\qquad$
c) $53,200=$ $\qquad$ f) $502,000=$ $\qquad$
(7) Write the standard form numbers as ordinary numbers
a) $4 \times 10^{5}=$ $\square$
e) $6.1 \times 10^{3}=$ $\square$
b) $4.1 \times 10^{5}=$ $\square$
f) $6.1 \times 10^{4}=$ $\square$
c) $4.01 \times 10^{5}=$ $\square$ g) $6.1 \times 10^{5}=$ $\square$
d) $4.001 \times 10^{5}=$ $\square$
b) Write the numbers in ascending order.

## 4 billion

$$
4 \times 10^{7}
$$

410,000,000


Use Whitney's reasoning to write the numbers in standard form.
a) $30 \times 10^{4}=$ $\qquad$ d) $10 \times 7 \times 10^{4}=$
$\qquad$
b) $200 \times 10^{5}=$ $\qquad$ e) $8,000 \times 10^{1}=$ $\qquad$
c) $230 \times 10^{5}=$ $\qquad$ f) $91.7 \times 10^{4}=$
c)
$\qquad$

Do you agree with Rosie? $\qquad$
Explain why.

