

# Multiply by 10, 100 and 1,000



1 Complete the multiplications.

You may use the place value charts to help you.

a)

| Th | H | T | O |
|----|---|---|---|
|    |   |   | 7 |

$7 \times 10 = \boxed{\phantom{00}}$

b)

| Th | H | T | O |
|----|---|---|---|
|    |   | 3 | 9 |

$39 \times 10 = \boxed{\phantom{00}}$

c)

| Th | H | T | O |
|----|---|---|---|
|    | 2 | 0 | 5 |

$205 \times 10 = \boxed{\phantom{00}}$

d) What happens to the digits when you multiply by 10?

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2 Complete the multiplication sentences.

a)  $9 \times 10 = \boxed{\phantom{00}}$

e)  $\boxed{\phantom{00}} \times 10 = 320$

b)  $54 \times 10 = \boxed{\phantom{00}}$

f)  $10 \times \boxed{\phantom{00}} = 1,350$

c)  $10 \times 13 = \boxed{\phantom{00}}$

g)  $20 \times 10 = \boxed{\phantom{00}}$

d)  $126 \times 10 = \boxed{\phantom{00}}$

h)  $\boxed{\phantom{00}} \times 10 = 5,000$

3 Multiply each number by 100 and then by 1,000

You may use the place value charts to help you.

a)

| HTh | TTh | Th | H | T | O |
|-----|-----|----|---|---|---|
|     |     |    |   |   | 9 |

$9 \times 100 = \boxed{\phantom{00}}$

$9 \times 1,000 = \boxed{\phantom{00}}$

b)

| HTh | TTh | Th | H | T | O |
|-----|-----|----|---|---|---|
|     |     |    |   | 1 | 6 |

$16 \times 100 = \boxed{\phantom{00}}$

$16 \times 1,000 = \boxed{\phantom{00}}$

c)

| HTh | TTh | Th | H | T | O |
|-----|-----|----|---|---|---|
|     |     |    | 2 | 4 | 5 |

$245 \times 100 = \boxed{\phantom{00}}$

$245 \times 1,000 = \boxed{\phantom{00}}$

d) Explain to a partner how you multiply a number by 100

Ask them to explain how to multiply by 1,000

4 Complete the multiplication sentences.

a)  $45 \times 100 = \boxed{\phantom{00}}$

c)  $41 \times 10 = \boxed{\phantom{00}}$

$52 \times 100 = \boxed{\phantom{00}}$

$41 \times 100 = \boxed{\phantom{00}}$

$70 \times 100 = \boxed{\phantom{00}}$

$41 \times 1,000 = \boxed{\phantom{00}}$

b)  $612 \times 100 = \boxed{\phantom{00}}$

d)  $10 \times 952 = \boxed{\phantom{00}}$

$715 \times 100 = \boxed{\phantom{00}}$

$100 \times 952 = \boxed{\phantom{00}}$

$720 \times 100 = \boxed{\phantom{00}}$

$1,000 \times 952 = \boxed{\phantom{00}}$



5 Write  $<$ ,  $>$  or  $=$  to make the statements true.

a)  $78 \times 10$    $78 \times 100$

b)  $100 \times 56$    $65 \times 100$

c)  $930 \times 10$    $100 \times 93$

d)  $1,000 \times 482$    $482 \times 100$

6

$54 \times 1,000$   
is the same as  
 $54 \times 10 \times 10 \times 10$



Is Whitney correct? \_\_\_\_\_

Explain how you know.

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7 Complete the multiplication sentences.

a)  $52 \times$    $= 5,200$

f)   $\times 370 = 3,700$

b)  $95 \times$    $= 950$

g)   $\times 100 = 8,200$

c)  $136 \times$    $= 1,360$

h)   $\times 100 = 82,000$

d)  $272 \times$    $= 272,000$

i)   $\times 10 = 39,000$

e)  $6,200 =$    $\times 62$

j)  $1,000 \times$    $= 80,000$

8 Ron and Dani have paper rounds.

Ron delivers 75 papers a month.

Dani delivers 10 times as many papers a month as Ron.

How many papers do they deliver altogether?

9 Mrs Hall owns a bookshop.

- In January, she sold 145 books.
- In February, she sold 10 times as many books.
- In March, she sold 10 times as many books as in February.

How many books did Mrs Hall sell in March?

Show your workings.

Compare answers with a partner.

10 Amir thinks of a number.

- He multiplies the number by 100
- The answer has the same digit in the thousands and hundreds columns.
- The total of all the digits is 8

What could the number be?