



# Planet Problems

I can multiply whole numbers by 10, 100 and 1000.



- 1) Complete these sentences by choosing words from the box below.  
You can use a word more than once if necessary.

To multiply by 10, we move each digit \_\_\_\_\_ place to the \_\_\_\_\_.

To multiply by 100, we move each digit \_\_\_\_\_ place to the \_\_\_\_\_.

To multiply by 1000, we move each digit \_\_\_\_\_ place to the \_\_\_\_\_.

one	left	three	two
right	top	four	

- 2) Use your Digit Cards 0-9 and Million Place Value Grid to help you to multiply these numbers by 10, 100 and 1000.

a)  $345 \times 10 =$  \_\_\_\_\_

b)  $863 \times 10 =$  \_\_\_\_\_

c)  $59 \times 100 =$  \_\_\_\_\_

d)  $709 \times 10 =$  \_\_\_\_\_

e)  $5 \times 1000 =$  \_\_\_\_\_

f)  $92 \times 100 =$  \_\_\_\_\_

g)  $814 \times 10 =$  \_\_\_\_\_

h)  $900 \times 10 =$  \_\_\_\_\_

i)  $64 \times 100 =$  \_\_\_\_\_

j)  $9 \times 1000 =$  \_\_\_\_\_





# Planet Problems Answers

Question	Answer
1.	Complete these sentences by choosing words from the box below. You can use a word more than once if necessary.
	To multiply by 10, we move each digit <i>one</i> place to the <i>left</i> . To multiply by 100, we move each digit <i>two</i> places to the <i>left</i> . To multiply by 1000, we move each digit <i>three</i> places to the <i>left</i> .
2.	Use your Digit Cards 0-9 and Million Place Value Grid to help you to multiply these numbers by 10, 100 and 1000.
a	$345 \times 10 = 3450$
b	$863 \times 10 = 8630$
c	$59 \times 100 = 5900$
d	$709 \times 10 = 7090$
e	$5 \times 1000 = 5000$
f	$92 \times 100 = 9200$
g	$814 \times 10 = 8140$
h	$900 \times 10 = 9000$
i	$64 \times 100 = 6400$
j	$9 \times 1000 = 9000$

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one	left	three	two
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- 2) Match the planets with their moons. Use your Million Place Value Grid to help you if you need to.



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one	left	three	two
right	top	four	

- 2) Complete these calculations:

a)  $56 \times 100 =$  \_\_\_\_\_

b)  $3219 \times 10 =$  \_\_\_\_\_

c)  $1000 \times 149 =$  \_\_\_\_\_

d)  $70\,002 \times 10 =$  \_\_\_\_\_

e)  $71 \times 1000 =$  \_\_\_\_\_

f)  $100 \times 1000 =$  \_\_\_\_\_

g)  $10 \times 10\,345 =$  \_\_\_\_\_

h)  $1000 \times 90 =$  \_\_\_\_\_





3) Match the planets with their moons.

8200

925 700

74 400

10 000

92 570

8290

28 000

404 000

92 470

744 000

1000

$100 \times 100$

23  $\times$  1000

2800

40 400

$280 \times 100$

23 000

$4040 \times 10$

$744 \times 100$

303 000

2300

$10 \times 8294$

$303 \times 100$

$100 \times 1001$

82 000

100 100

$9257 \times 10$

$82 \times 1000$

30 330

829 400

2802

30 300

10 100

7440

82 020

101 000

23 030

82 940

40 004

1 000 000





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2.	Complete these calculations:	
a	$56 \times 100 = 5600$	e $71 \times 1000 = 71\,000$
b	$3219 \times 10 = 32\,190$	f $100 \times 1000 = 100\,000$
c	$1000 \times 149 = 149\,000$	g $10 \times 10\,345 = 103\,450$
d	$70\,002 \times 10 = 700\,020$	h $1000 \times 90 = 90\,000$
3.	Match the planets with their moons.	
	$744 \times 100$	74 400
	$10 \times 8294$	82 940
	$82 \times 1000$	82 000
	$100 \times 100$	10 000
	$280 \times 100$	28 000
	$4040 \times 10$	40 400
	$23 \times 1000$	23 000
	$100 \times 1001$	100 100
	$9257 \times 10$	92 570
	$303 \times 100$	30 300