

Multiplying by 10, 100 and 1,000

Multiplying by 10, 100 and 1,000

1a. Look at the following number sequences.

A. 1, 10, 100

B. 7.6, 76, 760

C. 1.54, 15.4, 154

Explain the pattern.
Write the next 2 numbers in each sequence.



R

1b. Look at the following number sequences.

A. 2, 20, 200

B. 9.3, 93, 930

C. 7.24, 72.4, 724

Explain the pattern.
Write the next 2 numbers in each sequence.



R

2a. Cian and Sinead are multiplying numbers by 100.



Cian

If I multiply the number 2.15 by 100 I get 2.1500

You are incorrect. The answer would be 215



Sinead

Who is correct?
Explain your answer.



R

2b. Halina and Bo are multiplying numbers by 10.



Halina

If I multiply the number 8.32 by 10 I get 8.320

If I multiply the number 8.32 by 10 I get 83.2



Bo

Who is correct?
Explain your answer.



R

3a. Create a calculation using the operation and number cards below.

1.3

13

130

x 100

x 10

x 1,000

How many combinations can you make using only one operation per calculation?



PS

3b. Create a calculation using the operation and number cards below.

0.45

45

450

x 10

x 1,000

x 100

How many combinations can you make using only one operation per calculation?



PS

Multiplying by 10, 100 and 1,000

Multiplying by 10, 100 and 1,000

4a. Look at the following number sequences.

A. 0.075, 1.5, 30

B. 0.05, 1, 20

C. 0.25, 5, 100

Explain the pattern.
Write the next 2 numbers in each sequence.



R

4b. Look at the following number sequences.

A. 0.13, 3.9, 117

B. 0.87, 26.1, 783

C. 0.041, 1.23, 36.9

Explain the pattern.
Write the next 2 numbers in each sequence.



R

5a. Sam and Beth are multiplying numbers by 20.



Sam

If I multiply the number 129.5 by 20 I get 259

If I multiply the number 129.5 by 20 the answer would be 2,590



Beth

Who is correct?
Explain your answer.



R

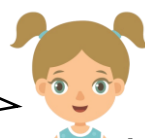
5b. Faizel and Hannah are multiplying numbers by 1,000.



Faizel

If I multiply the number 73.03 by 1,000 I get 73,030

If I multiply the number 73.03 by 1,000 the answer would be 73.03000



Hannah

Who is correct?
Explain your answer.



R

6a. Create a calculation using the operation and number cards below.

2.5

0.25

250

2,500

x 100

x 10

x 1,000

How many combinations can you make using only one operation per calculation?



PS

6b. Create a calculation using the operation and number cards below.

24.75

2.475

247.5

2,475

x 10

x 1,000

x 100

How many combinations can you make using only one operation per calculation?



PS

Multiplying by 10, 100 and 1,000

Multiplying by 10, 100 and 1,000

7a. Look at the following number sequences.

A. 0.023, 2.3, 230

B. 0.012, 1.2, 120

C. 0.004, 0.4, 40

Explain the pattern. Write the next 2 numbers in each sequence. Create another sequence following this pattern.



R

7b. Look at the following number sequences.

A. 0.01, 0.2, 4

B. 0.007, 0.14, 2.8

C. 0.024, 0.48, 9.6

Explain the pattern. Write the next 2 numbers in each sequence. Create another sequence following this pattern.



R

8a. Josh and Lucy are multiplying numbers by multiples of 10.



Josh

If I multiply the number 432.78 by 10 and then by 10 again I get 8,655.6

If I multiply the number 432.78 by 10 and then by 10 again I get 43,278



Lucy

Who is correct?
Explain your answer.



R

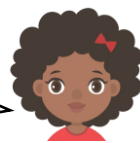
8b. Jed and Isabel are multiplying numbers by multiples of 10.



Jed

If I multiply the number 73.03 by 50 I get 3,651.5

If I multiply the number 73.03 by 50 the answer would be 365.15



Isabel

Who is correct?
Explain your answer.



R

9a. Create a calculation using the operation and number cards below.

0.125

1,250

125

12.5

x 100

x 10

x 1,000

How many combinations can you make using two operations per calculation?
Cards can be used more than once.



PS

9b. Create a calculation using the operation and number cards below.

0.375

37.5

375

3,750

x 10

x 1,000

x 100

How many combinations can you make using two operations per calculation?
Cards can be used more than once.



PS