

Multiply by 10, 100 and 1,000

1. Multiply the following number by 10, 100 and 1,000.

27.056

x 10

x 100

x 1,000

VF

4. Nadia is multiplying numbers by multiples of 100.

She says,



If I multiply 43.013 by 100, I get 4,313. This means 43.013 multiplied by 200 equals 8,626.

Identify and correct Nadia's mistake.

R

2. Which calculation is incorrect?

A. $12.2 \times 40 = 488$

B. $1.324 \times 200 = 26.48$

C. $0.132 \times 1,000 = 132$

VF

5. Create a calculation using two of the number cards and an operation.

6,794

67.94

6.794

679.4

x 10

x 1,000

x 100

How many combinations can you find?

PS

3. Solve the calculations and use $<$, $>$ or $=$ to complete the statements.

A. 524×10 321×20

B. $2.907 \times 1,000$ 290.7×10

C. 1.82×100 3.20×40

VF

6. Look at the sequence below.

0.001, 0.02, 0.4

Jenny says,



The next number in the sequence will be 80.

Is Jenny correct? Explain your answer.

R

Multiply by 10, 100 and 1,000

1. 270.56; 2,705.6; 27,056
2. B is incorrect.
3. A. <; B. =; C. >
4. Nadia's reasoning is correct, but her calculations are incorrect. She has incorrectly multiplied 43.013 by 100, so her following calculation is also incorrect. $43.013 \times 100 = 4301.3$, so $43.013 \times 200 = 8602.6$.
5. There are 6 combinations: $6.794 \times 10 = 67.94$, $6.794 \times 100 = 679.4$, $6.794 \times 1,000 = 6,794$, $67.94 \times 10 = 679.4$, $67.94 \times 100 = 6,794$, $679.4 \times 10 = 6,794$
6. Jenny is incorrect. The next number will be 8 because the numbers in the sequence are being multiplied by 20 each time. $0.4 \times 20 = 8$, not 80. Jenny has multiplied by 200 instead.