

02.07.2020

I can multiply and divide by 10, 100 and 1 000.

Multiplying and Dividing by 10, 100 and 1000

| | | | | | | | | |
|--------|------|-----|----|---|---|----------------|-----------------|------------------|
| 10 000 | 1000 | 100 | 10 | 1 | ● | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| | | | | | ● | | | |

Multiplying

X 10
X 100
X 1000

digits move LEFT 1 space
digits move LEFT 2 spaces
digits move LEFT 3 spaces



Dividing

÷ 10
÷ 100
÷ 1000

digits move RIGHT 1 space
digits move RIGHT 2 spaces
digits move RIGHT 3 spaces



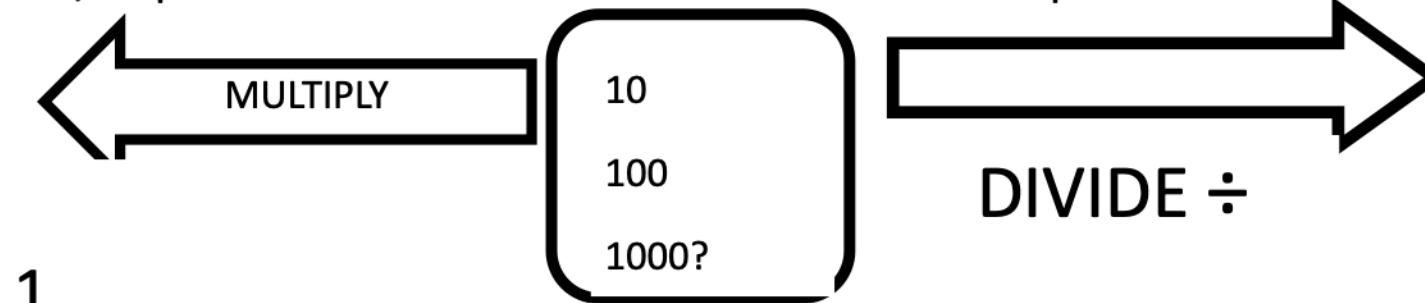
Let's recap...

<https://www.bbc.co.uk/bitesize/topics/z36tyrd/articles/z2fkwx>

Tasks

REMEMBER! When you multiply your digits move left and when you divide your digits move right.

The distance they move depends on the amount of zeros in your number. If you are multiplying by 100 they move left, 2 spaces because 100 has 2 zeros! The decimal point does not move!



Task 1

a) $43 \times 10 = \dots\dots\dots$

b) $789 \times 100 = \dots\dots\dots$

c) $3.5 \times 100 = \dots\dots\dots$

d) $58.3 \times 10 = \dots\dots\dots$

a) $39 \div 10 = \dots\dots\dots$

b) $410 \div 100 = \dots\dots\dots$

c) $654 \div 1000 = \dots\dots\dots$

d) $8.3 \div 10 = \dots\dots\dots$

e) $342.5 \div 100 = \dots\dots\dots$



Task 2

a) $73 \times \dots\dots\dots = 7300$

b) $873 \div \dots\dots\dots = 87.3$

c) $0.802 \times 100 = \dots\dots\dots$

d) $\dots\dots\dots \div 1000 = 42.09$

e) $9.231 \times \dots\dots\dots = 923.1$

f) $98.02 \times \dots\dots\dots = 98020$

g) $9.002 \div \dots\dots\dots = 0.09002$

h) $2.0901 \times \dots\dots\dots = 2090.1$

i) $0.124 \div \dots\dots\dots = 0.00124$

j) $18.9802 \div \dots\dots\dots = 1.89802$



Task 3

a) I start with the number 324. I subtract 268 from this and divide this answer by 10. What number do I end up with?

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b) I start with the number 24. I multiply this by 36. I divide my answer by 100. What is my final number?

c) I think of a number. I add 7 to it and then divide it by 10. My

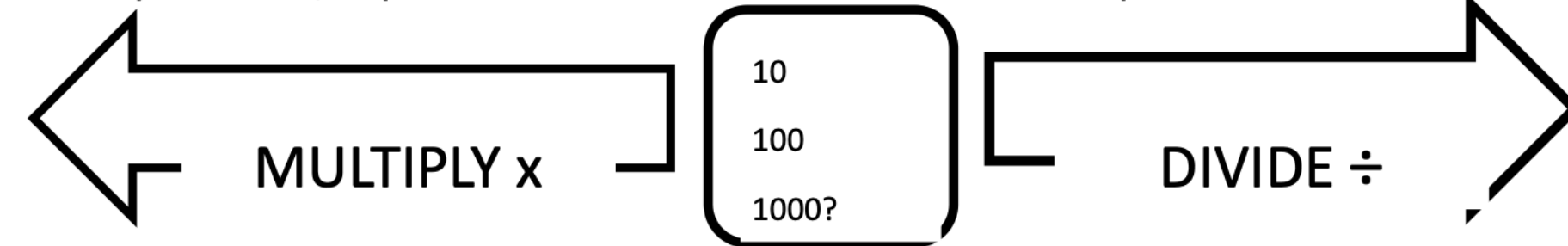


Answers



REMEMBER! When you multiply your digits move left and when you divide your digits move right.

The distance they move depends on the amount of zeros in your number. If you are multiplying by 100 they move left, 2 spaces because 100 has 2 zeros! The decimal point does not move!



a) $43 \times 10 = 430$

b) $789 \times 100 = 78900$

c) $3.5 \times 100 = 350$

d) $58.3 \times 10 = 583$

a) $39 \div 10 = 3.9$

b) $410 \div 100 = 4.1$

c) $654 \div 1000 = 0.654$

d) $8.3 \div 10 = 0.83$

e) $342.5 \div 100 = 3.425$



a) $73 \times 100 = 7300$

b) $873 \div 10 = 87.3$

c) $0.802 \times 100 = 80.2$

d) $42090 \div 1000 = 42.09$

e) $9.231 \times 100 = 923.1$

f) $98.02 \times 1000 = 98020$

g) $9.002 \div 100 = 0.09002$

h) $2.0901 \times 1000 = 2090.1$

i) $0.124 \div 100 = 0.00124$

j) $18.9802 \div 10 = 1.89802$



a) I start with the number 324. I subtract 268 from this and divide this answer by 10. What number do I end up with? 5.6

b) I start with the number 24. I multiply this by 36. I divide my answer by 100. What is my final number? 8.64

c) I think of a number. I add 7 to it and then divide it by 10. My answer is 3.8. What number did I start with? 45

