



Colin and Coco's Deliberate Practice

Year 5 Unit 5

Multiplication and Division





Contents

This pack of deliberate practice is designed to be used flexibly to secure the manageable steps of this unit.

The table below indicates which activities are linked to which manageable steps.

	Do It	Challenge It	Play It
Multiply a whole number by 10	1		
Multiply a whole number by 100	1	1	
Multiply a whole number by 1000		1	1
Multiply a decimal by 10	2		
Multiply a decimal by 100		2	
Multiply a decimal by 1000		2	2
Divide a whole number by 10	3		
Divide a whole number by 100	3	3	
Divide a whole number by 1000	3		3
Divide a decimal by 10	4	4	
Divide a decimal by 100	4	4	4



Do It 1

Calculate:

$$23 \times 10 = \boxed{} \quad 350 \times 10 = \boxed{} \quad 3250 \times 10 = \boxed{}$$

$$234 \times 10 = \boxed{} \quad 506 \times 10 = \boxed{} \quad 2070 \times 100 = \boxed{}$$

$$350 \times 10 = \boxed{} \quad 440 \times 100 = \boxed{} \quad 10 \times 8020 = \boxed{}$$

$$506 \times 10 = \boxed{} \quad 707 \times 100 = \boxed{} \quad 100 \times 6000 = \boxed{}$$

Put digits in the empty boxes to complete the statement in several different ways.

Challenge It 1

$$\boxed{}\boxed{}\boxed{} \times \boxed{}\boxed{}\boxed{}\boxed{} = \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{}$$

Solve the problem in several ways using:

- i) only two different digits
- ii) only three different digits
- iii) only four different digits
- iii) five different digits



Multiply Whole Numbers by 1000 Game

Play It 1

You need:

0 - 9 Dice

0 - 100,000 blank number line

To play:

Players take it in turns to roll the dice twice to create a 2-digit number.

Multiply your number by 1000

Plot your answer on a 0 - 100,000 blank number line, convincing your partner that you are plotting it in the correct place.

To win:

The winner is the first player to plot four points without any of their opponent's points in between.



Calculate:

Do It 2

$4.7 \times 10 = \boxed{} \quad 0.47 \times 10 = \boxed{} \quad 10 \times 12.04 = \boxed{}$

$2.3 \times 10 = \boxed{} \quad 0.05 \times 10 = \boxed{} \quad 50.01 \times 10 = \boxed{}$

$12.3 \times 10 = \boxed{} \quad 1.03 \times 10 = \boxed{} \quad 10 \times 0.007 = \boxed{}$

$5.6 \times 10 = \boxed{} \quad 32.04 \times 10 = \boxed{} \quad 516.7 \times 10 = \boxed{}$

Match the calculation to the answer.
Find the missing buddies.

Challenge It 2

32.4×100
$$
32.4×1000
3.024×100
0.324×100
3.42×1000
3.204×100
3.024×1000
3.204×1000

302.4
3420
3240
320.4
3204
324
$$
32.4
32400



Multiply Decimals by 1000 Game

Play It 2

You need:

0 - 9 Dice

0 - 1000 blank number line

To play:

Players take it in turns to roll roll the dice twice to create a decimal number.

0.

Multiply your number by 1000

Plot your answer on a 0 - 1000 blank number line, convincing your partner that you are plotting it in the correct place.

To win:

The winner is the first player to plot four points without any of their opponent's points in between.



Calculate:

Do It 3

$47 \div 10 = \boxed{}$

$519 \div 10 = \boxed{}$

$104 \div 10 = \boxed{}$

$39 \div 100 = \boxed{}$

$427 \div 100 = \boxed{}$

$750 \div 100 = \boxed{}$

$1200 \div 1000 = \boxed{}$

$6750 \div 1000 = \boxed{}$

$23 \div 1000 = \boxed{}$

$3026 \div 10 = \boxed{}$

$8106 \div 100 = \boxed{}$

$5167 \div 1000 = \boxed{}$

Choose from the digits 1, 3, 4, 7, 9 to complete the statement in several different ways.

Challenge It 3

$\boxed{}\boxed{} \div 100$

How many different ways can you get an answer between 0.3 and 0.8?

Now change one of the digits so that there are fewer possible answers.



Divide Whole Numbers by 1000 Game

Play It 3

You need:

0 - 9 Dice

0 - 0.1 blank number line

To play:

Players take it in turns to roll the dice twice to create a 2-digit number:

Divide your number by 1000

Plot your answer on a 0 - 0.1 blank number line, convincing your partner that you are plotting it in the correct place.

To win:

The winner is the first player to plot four points without any of their opponent's points in between.



Calculate:

Do It 4

$4.7 \div 10$		$1.05 \div 10 =$		$10.4 \div 10 =$	
$3.9 \div 100 =$		$0.4 \div 100 =$		$70.05 \div 10 =$	
$1.2 \div 100 =$		$0.04 \div 10 =$		$20.3 \div 100 =$	
$0.32 \div 10 =$		$80.1 \div 100 =$		$500.7 \div 10 =$	

Match the calculation to the answer.
Find the missing buddies.

Challenge It 4

	4.65
$46.5 \div 100$	40.56
$45.6 \div 100$	4.56
$46.5 \div 10$	46.05
$450.6 \div 100$	40.65
$405.6 \div 10$	0.465
$460.5 \div 10$	4.056
$405.6 \div 100$	4.506
$406.5 \div 10$	



Divide a decimal by 100 Game

Play It 4

You need:

0 - 9 Dice

0 - 0.1 blank number line

To play:

Players take it in turns to roll the dice twice to make a decimal number with one decimal place.

Divide your number by 100

Plot your answer on a 0 - 0.1 blank number line, convincing your partner that you are plotting it in the correct place.

To win:

The winner is the first player to plot four points without any of their opponent's points in between.