



Colin and Coco's Deliberate Practice

Year 1 Unit 14

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
Double numbers up to at least 10	1		3
Halve numbers up to (at least) 20	1		
Count (from zero) in equal steps of 2s		1	
Count (from zero) in equal steps of 5s			1
Count (from zero) in equal steps of 10s			1
Use equal groups for multiplication	2		
Use arrays for multiplication		2	
Use grouping for division			2
Use sharing for division		3	
Decide whether to multiply or divide to represent problems	3		



Do It 1

Double the numbers:

2		1	
4		3	
6		5	
8		7	
10		9	

Halve the numbers:

4		2	
8		10	
16		18	
12		14	
20		3	

Challenge It 1

Here is a sequence of numbers increasing by the same step each time.
Find the missing digits

.. 6, 8, , 2, ...

Solve the problem in several different ways.
What do you notice?

Solve the problem using only 4 different digits if possible.



Counting 5s and 10s Game

Play It 1

You need:

1 - 6 dice

To play:

Player 1 rolls the dice.

This number is how many steps of 10 Player 1 will count.

Player 1 rolls the dice again.

This number is how many steps of 5 Player 1 will now count on.

Player 1 scores the number they end on.

For example, Player 1 rolls 4

they count "10, 20, 30, 40"

Player 1 now rolls 2

they count "45, 50"

Player 1's score is 50

Player 2 now repeats.

The player who lands on the largest number wins one point.

To win:

The winner is the first player to score 10 points.



Do It 2

Draw a diagram to represent and solve the following problems:

4 leaves, 2 spiders on each leaf.
How many spiders altogether?

2 flowers, 5 petals on each flower.
How many petals in total?

2 plates, 3 sausages in each plates.
How many sausages in total?

5 cups, 3 cubes in each cup.
How many cubes in total?

3 packs, 3 sweets in each pack.
How many sweets altogether?

3 boxes, 4 eggs in each box.
How many eggs in total?

Draw different arrays to represent

20

Challenge It 2

Complete the statement for each array

groups of

Investigate arrays for other numbers.



Grouping Game

Play It 2

You need:

Pile of counters (more than 10)

To play:

Player 1 grabs a pile of counters (more than 10) and tries to divide the counters into equal groups.

They score the number of counters in one group.

Player 2 takes a turn.

To win:

The winner is the first player to score more than 20



Solve the problems:

Do It 3

There are 4 cars.
There are 2 people in each car.
How many people in total?

There are 15 people and 5 cars
There is an equal number of people in each car
How many people in each car?

There are 12 birds sitting on branches
of a tree.
There are 3 birds on each branch.
How many branches?

There are 9 pencils.
There are 3 pencils of each colour.
How many colours?

There are 12 biscuits.
Liz puts 4 biscuits on each plate.
How many plates does Liz need?

There are 5 pots with 3 pens in each pot.
How many pens in total?

8 people are equally shared between 4 cars.
How many people in each car?

Colin has a pile of counters.
He can share his counters equally into 2 groups.
He can also share his counters equally into 3 groups.

Investigate the number of counters he could have.

Challenge It 3



Double Game

Play It 3

You need:

Counters or colours for each player

Doubles Board (on the next page.)

To play:

Each player takes turns to choose a number and double it.

If the player correctly doubles the number, they Cover, (or colour) their answer on the board..

For example:

Player 1: chooses 6
double 6 is 12
covers 12 on the board.

To win:

The winner is the first player to cover 5 numbers in a line; horizontally, vertically or diagonally.



Doubles Board

8	12	18	20	6	12	8	12	18	10
16	4	14	8	10	18	20	16	14	12
20	10	16	2	14	4	10	8	20	16
6	14	8	12	16	12	14	12	10	18
18	16	20	18	14	8	2	16	4	12
12	8	14	6	4	10	20	10	8	6
16	18	12	2	18	12	14	2	18	16
10	14	16	20	8	6	4	12	14	20
20	4	6	10	12	14	16	18	8	10
18	12	14	16	18	20	10	14	6	16