



# Colin and Coco's Deliberate Practice

Year 4 Unit 6

Multiplication and Division  
Multiplication Tables





# 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 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|---------|
| Build the 11x table and count in steps of 11 from zero                                                                                           | 1     | 1            |         |
| Recall and use multiplication facts for the 11 times table                                                                                       |       | 1            | 1       |
| Recall and use division facts for the 11 times table                                                                                             | 1     | 1            |         |
| Build the 12x table and count in steps of 12 from zero                                                                                           | 2     |              |         |
| Recall and use multiplication facts for the 12 times table                                                                                       | 2     |              | 2       |
| Recall and use division facts for the 12 times table                                                                                             | 2     | 2            |         |
| Use knowledge of factor pairs (commutativity) when multiplying mentally three numbers together, such as $2 \times 6 \times 5 = 10 \times 6 = 60$ | 3     | 3            | 3       |



Do It 1

Calculate:

|                         |                          |                        |                           |
|-------------------------|--------------------------|------------------------|---------------------------|
| $6 \times 11 = \square$ | $7 \times 11 = \square$  | $44 \div 11 = \square$ | $88 = 11 \times \square$  |
| $11 \times 9 = \square$ | $11 \times 11 = \square$ | $77 \div 11 = \square$ | $3 = \square \div 11$     |
| $11 \times 8 = \square$ | $5 \times 11 = \square$  | $99 \div 11 = \square$ | $132 = \square \times 11$ |
| $11 \times 0 = \square$ | $11 \times 12 = \square$ | $66 \div 11 = \square$ | $1 = \square \div 11$     |

Find the missing numbers.  
Complete the grids in several different ways  
where possible.

Challenge It 1

|   |    |    |    |
|---|----|----|----|
| x | 11 |    |    |
| 3 |    |    |    |
| 4 |    | 24 |    |
|   |    |    | 77 |

|    |    |    |    |
|----|----|----|----|
| x  |    |    |    |
| 11 | 66 | 99 |    |
|    | 42 |    |    |
|    |    |    | 32 |

|   |    |    |     |
|---|----|----|-----|
| x |    |    |     |
|   | 99 |    | 132 |
| 8 |    | 56 |     |
|   |    |    | 48  |



# Multiples of 11 Game

Play It 1

You need:

0 - 9 Dice

To play:

Players say aloud how many times they are going to roll the dice, from two to five times.

They roll the dice and then use the numbers in any way, to try to make a multiple of 11

The numbers thrown can be used as digits or as numbers.

For example: Numbers thrown: 4, 3, 2 and 2

Make 43, multiply it by 2 to make 86, add 2 to make 88

Score a point!

To win:

The winner is the first player to score 5 points.



Do It 2

Calculate:

$6 \times 12 = \square$

$12 \times 11 = \square$

$48 \div 12 = \square$

$84 = 12 \times \square$

$12 \times 9 = \square$

$12 \times 7 = \square$

$108 \div 12 = \square$

$3 = \square \div 12$

$12 \times 8 = \square$

$0 \times 12 = \square$

$96 \div 12 = \square$

$132 = \square \times 11$

$12 \times 5 = \square$

$12 \times 12 = \square$

$72 \div 12 = \square$

$1 = \square \div 12$

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

Challenge It 2

|               |
|---------------|
| $108 \div 12$ |
| $72 \div 12$  |
| $84 \div 12$  |
| $12 \div 12$  |
| $144 \div 12$ |
| $60 \div 12$  |
|               |
| $96 \div 12$  |
| $120 \div 12$ |

|    |
|----|
|    |
| 1  |
| 12 |
| 9  |
| 6  |
| 11 |
| 10 |
| 8  |
| 5  |



# Multiples of 12 Game

Play It 2

You need:

0 - 9 cards

To play:

Players deal the cards to get 4 digits each.

Players use the digits as many times as they like to make numbers less than 150 that are multiples of 12

They score a point for each multiple they make.

For example:     Get cards 1, 2, 3, and 8

                      Make 12, 121, 132

                      Score 3 points

To win:

The winner is the first player to score 15 points.



Do It 3

Calculate:

$$2 \times 3 \times 6 = \square$$

$$2 \times 5 \times 7 = \square$$

$$5 \times 6 \times 5 = \square$$

$$3 \times 2 \times 4 = \square$$

$$3 \times 5 \times 4 = \square$$

$$3 \times 4 \times 6 = \square$$

$$4 \times 2 \times 4 = \square$$

$$4 \times 3 \times 4 = \square$$

$$7 \times 3 \times 2 = \square$$

$$6 \times 2 \times 4 = \square$$

$$6 \times 5 \times 4 = \square$$

$$9 \times 2 \times 4 = \square$$

Challenge It 3

Find the missing numbers.  
Complete the calculations in several different ways.

$$\square \times \square \times \square = 36$$

$$\square \times \square \times \square = 96$$



# Product Game

Play It 3

You need:

0 - 9 Dice

To play:

Players take it in turns to roll the dice to get three digits.

Choose two of the digits to make a two-digit number that can be created by multiplying any three numbers together, not including 1

For example:      Throw 3, 5 and 6  
                         Choose 6 and 3 to make 63  
                          $63 = 3 \times 3 \times 7$   
                         Score 1 point

                         Throw 1, 3 and 7  
                         Make 37 - not possible to create by multiplying three numbers  
                         Score zero

To win:

The winner is the first player to score 10 points.