



Colin and Coco's Deliberate Practice

Year 6 Unit 8

Addition, Subtraction,
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
Carry out calculations involving a mixture of addition and subtraction	1		1
Carry out calculations involving a mixture of multiplication and division	1		1
Carry out calculations involving a mixture of multiplication and addition/subtraction		1	1
Carry out calculations involving a mixture of division and addition/subtraction		1	1
Carry out calculations involving all four operations, including brackets	2	2	
Carry out calculations involving a mixture of addition and/or subtraction and indices	2		2
Carry out calculations involving a mixture of multiplication and/or division and indices	2		2



Calculate:

Do It 1

$$14 + 5 - 4 = \square \quad 12 \times 6 \div 2 = \square \quad 30 - 8 + 2 + 8 = \square$$

$$11 + 7 - 4 = \square \quad 10 \times 8 \div 4 = \square \quad 18 \div 9 \times 6 \div 3 = \square$$

$$20 - 8 + 2 = \square \quad 20 \div 4 \times 3 = \square \quad 10 - 16 + 9 - 3 = \square$$

$$6 - 8 + 4 = \square \quad 18 \div 6 \times 3 = \square \quad 72 \div 8 \div 3 \times 0 = \square$$

Put digits in the empty boxes to make different totals.

Challenge It 1

Complete each one in several ways.

$$\square + \square \times \square = \square$$

$$\square - \square \times \square = \square$$

$$\square + \square \div \square = \square$$

$$\square - \square \div \square = \square$$

Using the four calculations, try and make all the totals 0 to 20



Order of Operations Game

Play It 1

You need:

Symbol cards (at the bottom of the page.)

1 - 9 Digit cards

To play:

Shuffle the two sets of cards separately and put them face down.

Turn over 3 digit cards and 2 symbol cards.

Both players have one minute to create and solve a calculation using each digit and symbol once each.

The player with the smallest total scores two points. If both players have the same, they score one point each.

To win:

The winner is the first player to score 10 points.

Now play again but score points for the largest total.

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Calculate:

Do It 2

$7 + 5 \times 4 = \square$

$10 \times (8 - 2) + 8 = \square$

$4 + 6^2 = \square$

$(7 + 5) \times 4 = \square$

$18 \div (7 + 2) \times 3 = \square$

$36 - 2^3 = \square$

$(20 - 8) \div 2 = \square$

$(16 - 11) \times 3 - 3 = \square$

$54 \div 3^2 = \square$

$6 - (2 \times 4) = \square$

$100 \div (20 + 5) - 4 = \square$

$1 + 5^2 \times 4 = \square$

Challenge It 2

$3 + 4 \times 5 + 6 = 41$

$11 + 4 \div 5 + 6 = 9$

$3 + 4 \times 5 + 6 = 47$

$2 + 4 \times 0 + 6 = 26$

$3 + 4 \times 5 + 6 = 77$

$2 + 4 \times 0 + 6 = 36$

$3 \times 4 + 5 - 6 = 21$

$12 \div 4 + 2 \times 2 = 4$

$3 + 4 \times 5 - 6 = 29$

$20 + 7 \div 4 - 1 = 9$

$3 \times 4 + 5 - 6 = 9$

$0 \times 4 + 0 - 1 = -1$



Order of Operations Game

Play It 2

You need:

Symbol cards (at the bottom of the page.)

0 - 9 Digit cards

To play:

Shuffle the two sets of cards separately and put them face down.

Turn over 4 digit cards and 3 symbol cards.

Both players have one minute to create and solve a calculation using each digit and symbol once each.

You must use one pair of brackets.

You are allowed to square one number.

The player with the largest total scores two points. If both players have the same, they score one point each.

To win:

The winner is the first player to score 10 points.

Now play again but score points for the smallest total.

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