CanDoMaths Daily Workout

Dear Parent/Carer

Welcome to the CanDoMaths Daily Workout resource pack.

All the resources have been designed to help your child practise the maths topics they have learnt this year and make sure their maths skills stay healthy and strong.

Colin and Coco both know that deliberate practice is really important. Coco likes to say *'Practice makes permanent'*; Colin prefers *'Practice keeps me skilled'*.

This pack focuses on practising **Multiplication and Division** Skills.

There are three types of Workouts for your child to practise:

1) 'Do It' questions (Workouts A, B and C)
   Find the answer to show they can still 'Do' the skill.
2) Problems to solve (Workouts D, E, F and G)
   Word problems, empty box problems and puzzles with lots of possibilities to show they can apply the skill.
3) Exploring facts for the week (Workout H)
   Choose the number of the date for Workouts 1 – 3, use the digits in the date for Workouts 4 – 6.

The idea is that you pick one or two Workouts for your child to complete each day – for example one 'Do It' and one 'Problem' Workout or just one 'Problem'. The CanDoMaths Gang (Liz and Steve) will provide a short video with guidance and hints for each pack on our YouTube Channel. Answers will also be shared via Twitter @MathsCanDo starting with the first activity on Monday 23rd March. The weekly plan followed will be:

Monday: Workouts A and D
Tuesday: Workout E
Wednesday: Workouts B and F
Thursday: Workouts C and G
Friday: Workout H

If you wish to do more practice, here is a list of some of Colin and Coco's favourite maths games and websites ….

Hit the Button www.topmarks.co.uk/maths-games/hit-the-button

Practise solve word problems using the Bar Model:
www.mathplayground.com/thinkingblocks.html

Maths Games

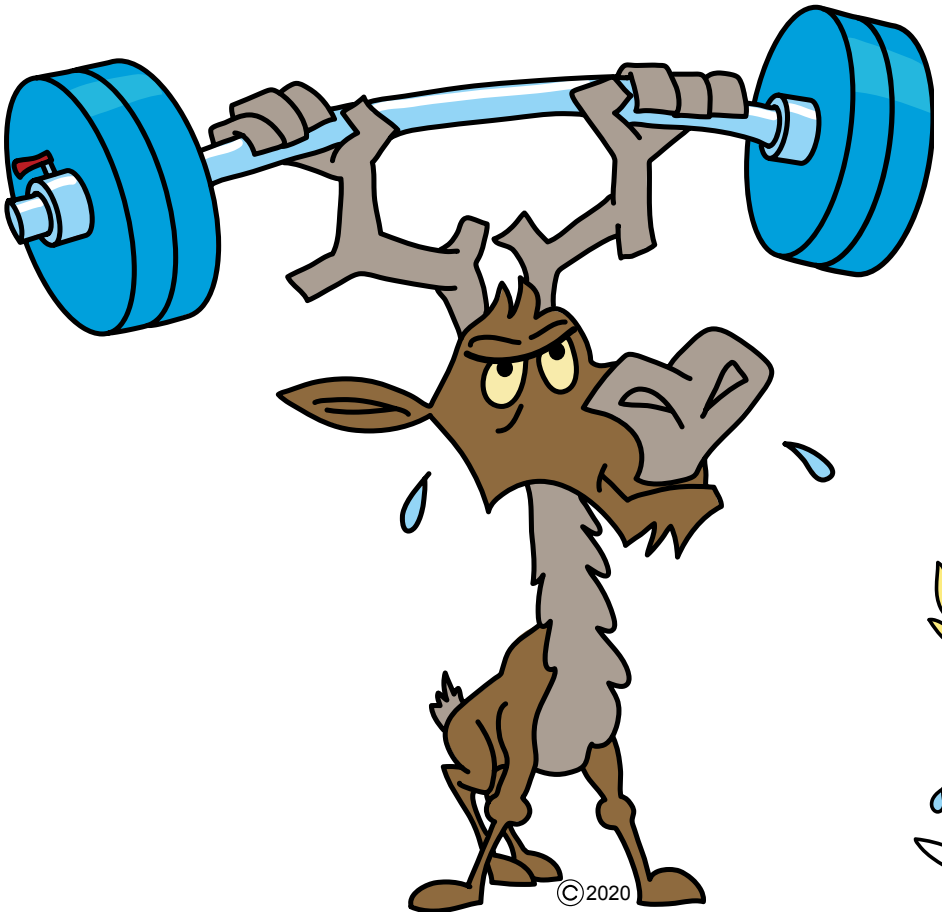
www.mathplayground.com/index_addition_subtraction.html
www.mathplayground.com/index_multiplication_division.html
www.mathplayground.com/index_fractions.html

NRich Games for Lower Primary nrich.maths.org/9412
NRich Interactives Lower Primary nrich.maths.org/9414
NRich Games for Upper Primary nrich.maths.org/9413
NRich Interactives Upper Primary nrich.maths.org/9415

Colin and Coco's Daily Maths Workout

Workout 3.1

Multiplication



Workout A

Multiplication Workout

$4 \times 5 =$ ☐	$6 \times 5 =$ ☐	$4 \times 3 =$ ☐	$4 \times 12 =$ ☐
$3 \times 9 =$ ☐	$3 \times 8 =$ ☐	$3 \times 7 =$ ☐	$12 \times 3 =$ ☐
$8 \times 4 =$ ☐	$8 \times 9 =$ ☐	$8 \times 6 =$ ☐	$8 \times 12 =$ ☐
$4 \times 6 =$ ☐	$4 \times 7 =$ ☐	$4 \times 4 =$ ☐	$4 \times 11 =$ ☐

Workout B

Addition Workout 2

☐ $= 4 \times 14$	☐ $= 4 \times 18$	☐ $= 4 \times 16$	☐ $= 4 \times 17$
☐ $= 14 \times 6$	☐ $= 14 \times 8$	☐ $= 15 \times 3$	☐ $= 13 \times 9$
☐ $= 3 \times 16$	☐ $= 3 \times 17$	☐ $= 3 \times 18$	☐ $= 3 \times 14$
☐ $= 13 \times 8$	☐ $= 16 \times 8$	☐ $= 19 \times 8$	☐ $= 17 \times 8$

Workout C

Addition Workout 3

$4 \times 32 =$ ☐	$4 \times 71 =$ ☐	$4 \times 64 =$ ☐	$4 \times 95 =$ ☐
$3 \times 41 =$ ☐	$3 \times 83 =$ ☐	$3 \times 74 =$ ☐	$3 \times 69 =$ ☐
$8 \times 31 =$ ☐	$8 \times 61 =$ ☐	$8 \times 36 =$ ☐	$8 \times 87 =$ ☐
$4 \times 62 =$ ☐	$3 \times 52 =$ ☐	$3 \times 74 =$ ☐	$3 \times 85 =$ ☐

Join Up - A Multiplication Game

You need:
Counters (or you could colour the squares instead of putting counters on them if you like.)
Products of 3 Board (on the next page)

To play:
Every time it is your turn you cover two numbers on the board.
One of your numbers multiplied by 3 must equal your other number.

The two numbers you cover do not need to be next to each other on the board.

e.g. You could choose to cover a 5 and a 15 because 5 x 3 = 15

or you could choose to cover a 7 and a 21 because 7 x 3 = 21 and so on.

To win:
The winner is the first player to cover five numbers in a line, horizontally, vertically or diagonally.

Products of Three

11	8	12	6	9	10	8	27	15	9
27	5	12	3	18	12	3	5	36	11
30	8	1	21	11	24	9	8	24	6
21	10	27	36	8	2	4	21	12	4
24	15	12	6	3	18	9	18	3	21
15	6	36	2	9	24	3	7	6	33
33	18	4	9	11	21	7	30	5	8
9	33	7	3	24	5	6	4	21	9
1	36	12	7	15	8	27	18	12	7
24	27	6	33	5	24	9	7	15	12

Missing Number Workout

Workout E

Choosing from the digits 3, 4, 6 and 8 in any combinations, how close can you get to an answer of 265?
Try several possible calculations. You can use a digit twice in one calculation.

$$\square\square \times \square$$

Solve each calculation in at least two ways.

$\square\square \times \square = 240$

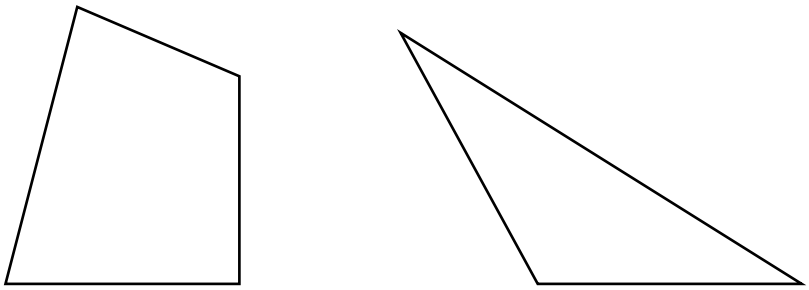
$\square\square \times \square = 160$

$\square\square \times \square = 360$

$\square\square \times \square = 180$

Shape Challenge

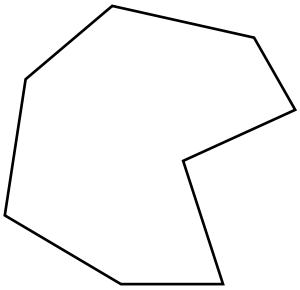
Workout F



Colin has collection of cards with triangles and quadrilaterals on. He picks some cards and there are 48 sides in total.

How many of each type of shape might he have chosen?

What if the total number of sides was 60?



If there were octagons in the collection too, how does that change the number of possible combinations?

Word Problem Workout

Workout G

Be careful - they are not all multiplication problems!

Colin is planting bulbs.
He plants 23 bulbs in each pot. There are 8 pots.
How many bulbs does he plant in total?

Colin has taken up jogging.
He jogs 8km each day.
How far will he have jogged in 21 days?

Colin loves apples.
Each crate has 30 apples in it.
How many apples are there in 4 crates?

Coco has 48 sweets.
Coco has three times as many sweets as Colin.
How many sweets does Colin have?

Coco loves crackers. She buys 3 packs of crackers.
There are 16 crackers in each pack.
She eats 12 crackers.
How many crackers does she have left?

Create your own problems for 14 × 3

Workout H

Number of the Day Workout

Today's number is

Write it in words

Draw It

Double It

Halve It

List its factors

List some multiples

10 more

10 less

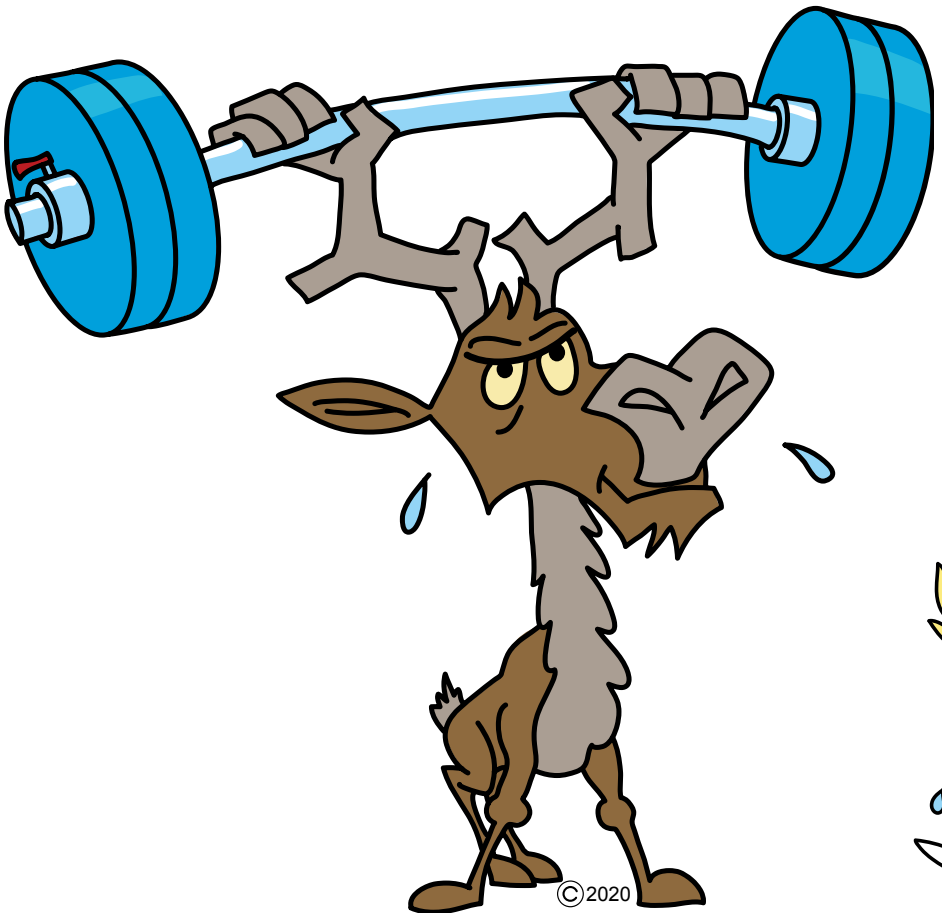
Calculation so it is the difference.

Calculation so it is the total.

Colin and Coco's Daily Maths Workout

Workout 3.2

Division



Division Workout

Workout A

18 ÷ 3 = ☐	16 ÷ 4 = ☐	16 ÷ 8 = ☐	36 ÷ 3 = ☐
24 ÷ 3 = ☐	24 ÷ 4 = ☐	24 ÷ 8 = ☐	48 ÷ 4 = ☐
12 ÷ 3 = ☐	12 ÷ 4 = ☐	32 ÷ 8 = ☐	96 ÷ 8 = ☐
27 ÷ 3 = ☐	32 ÷ 4 = ☐	56 ÷ 8 = ☐	48 ÷ 8 = ☐

Division Workout

Workout B

☐ = 21 ÷ 3	☐ = 20 ÷ 4	☐ = 32 ÷ 8	☐ = 51 ÷ 3
☐ = 36 ÷ 3	☐ = 36 ÷ 4	☐ = 40 ÷ 8	☐ = 64 ÷ 4
☐ = 48 ÷ 3	☐ = 48 ÷ 4	☐ = 96 ÷ 8	☐ = 104 ÷ 8
☐ = 54 ÷ 3	☐ = 56 ÷ 4	☐ = 120 ÷ 8	☐ = 57 ÷ 3

Division Workout

Workout C

42 ÷ 3 = ☐	120 ÷ 3 = ☐	180 ÷ 3 = ☐	270 ÷ 3 = ☐
60 ÷ 4 = ☐	160 ÷ 4 = ☐	320 ÷ 4 = ☐	360 ÷ 4 = ☐
39 ÷ 3 = ☐	330 ÷ 3 = ☐	480 ÷ 8 = ☐	400 ÷ 8 = ☐
68 ÷ 4 = ☐	240 ÷ 4 = ☐	640 ÷ 8 = ☐	360 ÷ 8 = ☐

Division Game

Workout D

You need:
A Counter each
1 – 6 dice
What's Left? Board – 4s (included in this pack)

To play:
Take it in turns to throw the dice and move up the board.
Divide the number you land on by four.
You score the remainder.

For example: If you land on 21 you calculate 21 ÷ 4
4 x 5 = 20 so the result is 5 remainder 1
You would score 1 point.

To win:
The winner is the player with the highest score when the first player passes the finish.

What's left? Board – 4s

21	14	32	28	10	43
Finish					15
30	11	20	19	41	29
15					
25	12	35	24	17	39
					23
31	23	33	27	38	22
19					
					Start
26	39	13	21	18	34

Missing Number Workout

Workout E

Find the missing digits.

$\square\square \div 3 = \square$ r 1

Solve the calculation in several different ways.

Find the missing digits in the following calcualtions.
Solve each one in several ways.

$\square\square \div 5 = \square$ r 2

$\square\square \div 4 = \square$ r 2

$\square\square \div 8 = \square$ r 3

Solve all three calculations together using the digits 1, 2, 3, 4, 5, 6, 7, 8, and 9 once each.

Rabbit workout

Workout F

Coco has some pet rabbits. She has fewer than 60 rabbits.

When she puts her rabbits in cages of 4 she gets one rabbit left over.

When she puts the same number of rabbits in cages of three she gets two left over.

Investigate possible numbers of rabbits that Coco could have.

Word Problem Workout

Workout G

Be careful - they are not all division problems!

Colin is planting 240 bulbs.
He plants the same number of bulbs in each pot. There are 8 pots.
How many bulbs does he plant in each pot?

Colin has taken up jogging.
He jogs a total of 54km.
He jogs 3km in each session.
How many jogging sessions has he done?

Colin loves apples. He has 270 apples.
Each crate has the same number of apples in it.
He has 3 crates. How many apples are in each crate?

Coco has 18 sweets.
Colin has three times as many sweets as Coco.
How many sweets does Colin have?

Coco loves crackers. She has 50 crackers.
She puts exactly 8 crackers on each plate, and eats the left over crackers.
How many crackers does she eat?

Create your own problems for $48 \div 3$

Workout H

Number of the Day Workout

Today's number is

Write it in words

Draw It

Double It

Halve It

List its factors

List some multiples

10 more

10 less

Calculation so it is the difference.

Calculation so it is the total.