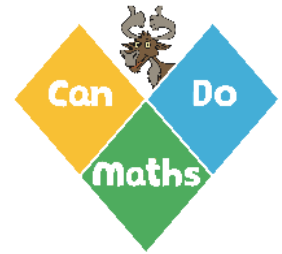# Colin and Coco's Daily Maths Workout

Workout 4.1 & 4.2

Answers

Multiplication Workout

You may need jottings to work these out on another piece of paper.

$40 \times 9 =$ 360

$60 \times 5 =$ 300

$60 \times 12 =$ 720

$80 \times 9 =$ 720

$30 \times 8 =$ 240

$12 \times 70 =$ 840

$30 \times 6 =$ 180

$60 \times 9 =$ 540

$8 \times 60 =$ 480

$70 \times 6 =$ 420

$40 \times 7 =$ 280

$90 \times 12 =$ 1080

Multiplication Workout

You may need to work these out on another piece of paper.

84 $= 6 \times 14$

126 $= 7 \times 18$

342 $= 6 \times 57$

161 $= 7 \times 23$

216 $= 9 \times 24$

252 $= 7 \times 36$

144 $= 9 \times 16$

204 $= 6 \times 34$

414 $= 9 \times 46$

150 $= 6 \times 25$

294 $= 7 \times 42$

273 $= 7 \times 39$

Multiplication Workout

You may need to work these out on another piece of paper.

$124 \times 3 =$ 372

$8 \times 312 =$ 2496

$476 \times 9 =$ 4284

$324 \times 4 =$ 1296

$3 \times 243 =$ 729

$394 \times 6 =$ 2364

$231 \times 6 =$ 1386

$6 \times 241 =$ 1446

$837 \times 7 =$ 5859

$134 \times 7 =$ 938

$7 \times 152 =$ 1064

$386 \times 8 =$ 3088

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 7 Board

To play:
Every time it is your turn you cover two numbers on the board.
One of your numbers multiplied by 7 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 35 because 5 x 7 = 35

or you could choose to cover a 8 and a 56 because 8 x 7 = 56 and so on.

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

Missing Number Workout

Solve each calculation in at least two ways.

8	0	×	6	= 480
6	0		8	

9	0	×	6	= 540
6	0		9	

4	0	×	9	= 360
9	0		4	

3	0	×	8	= 240
8	0		3	

Coco is multiplying a three-digit number by a one-digit number.
The answer is 756.
Find at least three different ways.

$$3 \; 7 \; 8 \times 2 = 7 \; 5 \; 6$$

$$1 \; 8 \; 9 \times 4 = 7 \; 5 \; 6$$

$$2 \; 5 \; 2 \times 3 = 7 \; 5 \; 6$$

Chocolate buttons cost 60p and packets of Crisp Hoopos cost 70p.

Alec spends £12 on treats and buys twice as many packets of Crisp Hoopos as chocolate buttons.
How many of each did he buy? **12 Hoopos and 6 Buttons**

If he spent £7.50 and bought three times as many packets of chocolate buttons as packets of Crisp Hoopos, how many of each did he buy?
3 Hoopos and 9 Buttons

The prices go up!

Chocolate buttons cost 80p and packets of Crisp Hoopos cost 90p.

Jim spends £10.40 on treats and buys twice as many packets of Crisp Hoopos as chocolate buttons.
How many of each did he buy? **8 Hoopos and 4 Buttons**

If he spent £13.20 and bought three times as many packets of chocolate buttons as packets of Crisp Hoopos, how many of each did he buy?
4 Hoopos and 12 Buttons

Word Problem Workout

Be careful - they are not all multiplication problems!

Colin is planting bulbs.
He plants 36 bulbs in each pot. There are 7 pots.
How many bulbs does he plant in total? 252

Colin has taken up jogging.
He jogs 235km each month.
How far will he have jogged in 6 months? 1410

Colin loves apples.
Each crate has 135 apples in it.
How many apples are there in 9 crates? 1215

Coco has earned £486.
Coco has earned three times as much as Colin.
How much has Colin earned? £1458

Coco loves crackers. She buys 6 packs of crackers.
There are 24 crackers in each pack.
She eats 12 crackers.
How many crackers does she have left? 132

Create your own problems for 124 × 6

1 - 20 Workout

Using the digits from today's date create all the numbers from 1 - 20. You can use any or all of the four operations. You must use all the digits every time.

Example: 27/3/20 (27th March)

1	11
2	12
3	13 $7 \times 2 = 14$ $3 - 2 - 0 = 1$ $14 - 1 = 13$
4 $7 + 2 - 3 - 2 - 0 = 4$	14
5	15
6 $7 + 3 - 2 - 2 - 0 = 6$	16
7	17
8	18
9 $7 \times 2 - 3 - 2 - 0 = 9$	19
10	20
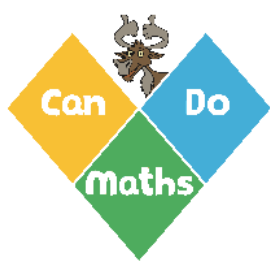
Colin and Coco's Daily Maths Workout

Workout 4.2

Division

Division Workout

$18 \div 6 =$ `3` $35 \div 7 =$ `5` $55 \div 6 =$ `9r1` $80 \div 7 =$ `11r3`

$21 \div 7 =$ `3` $54 \div 9 =$ `6` $57 \div 7 =$ `8r1` $66 \div 9 =$ `7r3`

$72 \div 9 =$ `8` $72 \div 6 =$ `12` $82 \div 9 =$ `9r1` $47 \div 6 =$ `7r5`

$24 \div 6 =$ `4` $49 \div 7 =$ `7` $50 \div 6 =$ `8r2` $67 \div 7 =$ `9r4`

Division Workout
You may need to work these out on another piece of paper.

`30` $= 210 \div 7$ `50` $= 350 \div 7$ `60` $= 420 \div 7$ `700` $= 4900 \div 7$

`60` $= 360 \div 6$ `80` $= 480 \div 6$ `120` $= 720 \div 6$ `900` $= 5400 \div 6$

`60` $= 480 \div 8$ `80` $= 640 \div 8$ `120` $= 960 \div 8$ `900` $= 7200 \div 8$

`60` $= 540 \div 9$ `80` $= 720 \div 9$ `90` $= 810 \div 9$ `120` $= 1080 \div 9$

Division Workout
You may need to work these out on another piece of paper.

$342 \div 3 =$ `114` $912 \div 8 =$ `114` $258 \div 3 =$ `86`

$468 \div 4 =$ `117` $918 \div 9 =$ `102` $336 \div 4 =$ `84`

$678 \div 6 =$ `113` $348 \div 3 =$ `116` $456 \div 8 =$ `57`

$966 \div 7 =$ `138` $248 \div 4 =$ `62` $387 \div 9 =$ `43`

Division Game

You need:
A Counter each
1 – 6 dice
What's Left? Board – 6s

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

For example: If you land on 25 you calculate 25 ÷ 6
4 x 6 = 24 so the result is 4 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.

Missing Number Workout

Find the missing digits.
Possible Solution

$$\boxed{4}\ \boxed{3} \div 6 = \boxed{7}\ r\ 1$$

Solve the calculation in several different ways.

Find the missing digits in the following calcualtions.
Solve each one in several ways if possible.
Possible Solution

$$\boxed{1}\ 3\ \boxed{1}$$
$$\boxed{6}\ \overline{7\ \boxed{8}\ 6}$$

$$1\ \boxed{3}\ \boxed{5}$$
$$\boxed{7}\ \overline{9\ \boxed{4}\ 5}$$

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

Colin doesn't think this is possible. Do you agree? Explain your thinking.

Tins of Beans Workout

Colin has some tins of beans.

When he puts the tins of beans in packs of six he gets one tin left over.

When she puts the same number of tins of beans in packs of four he gets three left over.

Investigate possible numbers of tins of beans that Colin could have.

Possible Solutions

7, 31, 55, 79

Word Problem Workout

Be careful - they are not all division problems!

Colin is planting 360 bulbs.
He plants the same number of bulbs in each pot. There are 9 pots.
How many bulbs does he plant in each pot? 40

Colin has taken up jogging.
He jogs a total of 558km.
He jogs 9km in each session.
How many jogging sessions has he done? 62

Colin loves apples. He has 732 apples.
Each crate has the same number of apples in it.
He has 6 crates. How many apples are in each crate? 122

Coco has 28 sweets.
Colin has seven times as many sweets as Coco.
How many sweets does Colin have? 196

Coco loves crackers. She has 110 crackers.
She puts exactly 9 crackers on each plate, and eats the left over crackers.
How many crackers does she eat? 2

Create your own problems for 258 ÷ 6

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1 - 20 Workout

Using the digits from today's date create all the numbers from 1 - 20. You can use any or all of the four operations. You must use all the digits every time.

Example: 03/4/20 (3rd April)

1	11
2	12
3	13
4	14 $3 \times 4 = 12$ $2 + 0 = 2$ $12 + 2 = 14$
5 $3 + 4 - 2 + 0 = 5$	15
6	16
7	17
8	18
9 $3 + 4 + 2 + 0 = 9$	19
10	20