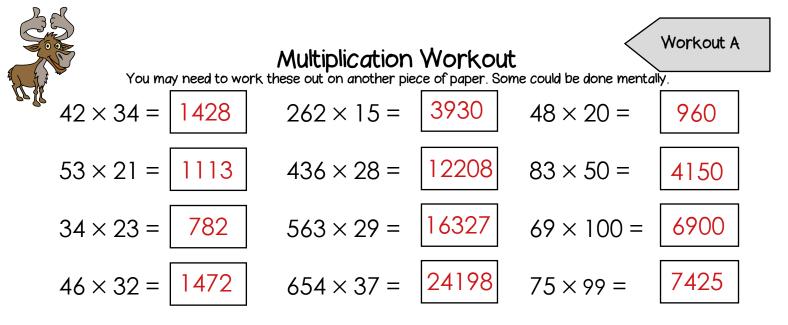


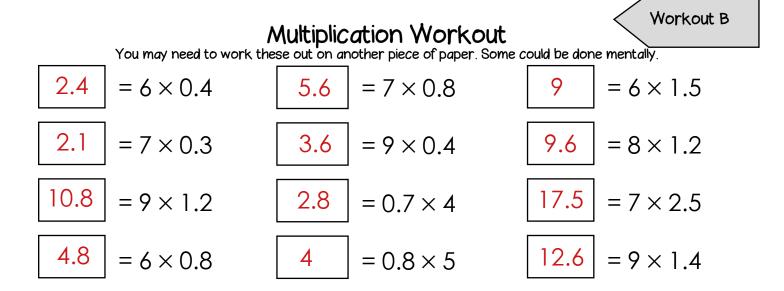
Colin and Coco's Daily Maths Workout

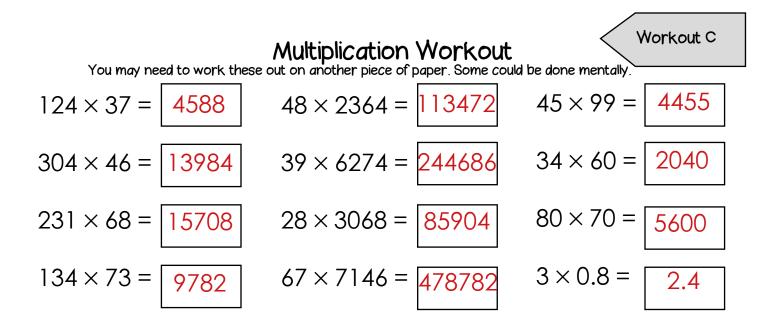
Workout 5.1 & 5.2

Answers











Join Up - A Multiplication Game

You need: Multiplication by 7 Board Counters or colours

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 0.5 and a 3.5 because $0.5 \times 7 = 3.5$ or you could choose to cover a 80 and a 560 because $80 \times 7 = 560$ and so on.

To win:

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

8	0.6	50	80	140	0.3	280	0.7	0.9	630
30	5.6	210	56	0.8	490	3.5	5.6	60	0.4
0.9	4.2	80	0.5	90	350	0.6	6.3	0.3	420
20	560	2.1	560	2.8	0.2	40	30	560	90
350	280	70	1.4	60	2.1	90	0.7	5.6	1.2
3.5	0.5	40	0.7	0.4	1.4	2.8	50	350	4.9
0.8	280	0.3	490	420	210	60	4.9	8.4	630
4.2	210	630	6.3	2.8	0.5	630	0.4	40	1.2
0.9	0.2	490	3.5	90	420	0.8	8.4	50	4.9
60	40	30	80	70	2.1	6.3	280	70	420

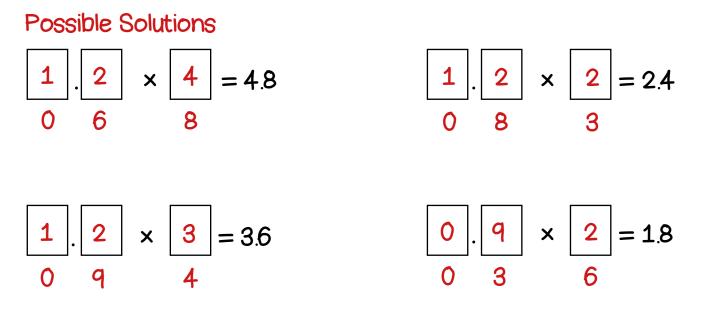
Multiplication by 7 Board



Missing Number Workout

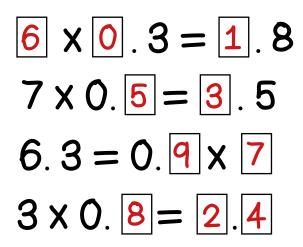


Solve each calculation in at least two ways.



Find the missing digits.

Solve each calculation in several ways if possible.



Solve all four calculations together using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 once each.



Garden Challenge

Mrs. Davies has decided to give her garden a makeover.

To sort out one of the flower borders she needs 5 bags of compost to mix with her home grown compost. Compost costs ± 3.98 per bag or 4 bags for the price of 3. How much will the compost cost? ± 15.92

She sets herself a budget of £300 for the plants. The following table shows what she would like to buy.

Can she buy all the plants she wants? Estimate first then calculate. No. Total £306.92

<u>Plant</u>	<u>Cost per plant</u>	<u>Quantity</u>
Purple Shrub	£12.48	4
Yellow Bush	£8.96	7
Orange Climber	£6.64	5
Red Berry	£15.38	2
Blue Spreading Plant	£4.78	12
Bag of 25 bulbs	£9.12	8



Word Problem Workout



Colin is having a party. He buys 36 packs of crisps. Each pack holds 25g of crisps. How many grams of crisps does he have in total? 900g

Colin has taken up jogging. There are 1760 yards in a mile. If he jogs 26 miles, how many yards is that? 45,760

A chef buys crates of apples. Each crate has 135 apples in it. He buys 19 crates of apples then uses 1500 apples. How many apples are left? 1,065

Brand new cars cost a dealer £9879 each. A dealer has £400,000 and he buys 34 cars. How much money does he have left? £64,114

Colin is jogging again! He is aiming to jog a total of 25km. He does three sessions of 2.3km, three sessions of 2.4km and six sessions of 1.5km. How much further does he need to jog? 23.1km

Create your own problems for 1245 × 16

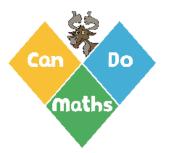


Using the digits from today's date create all the numbers from 1 - 20. You can use any or all of the four operations. You must use all the digits every time.

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

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



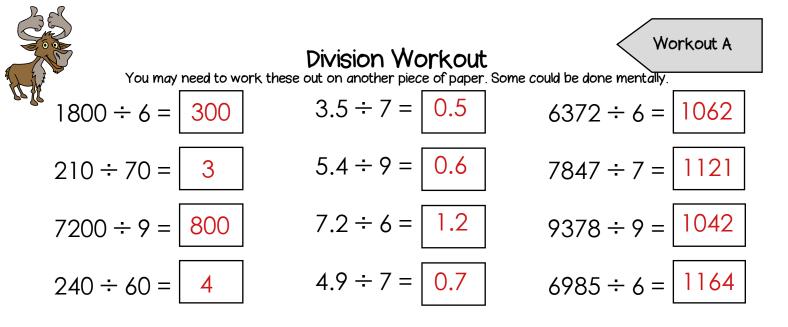


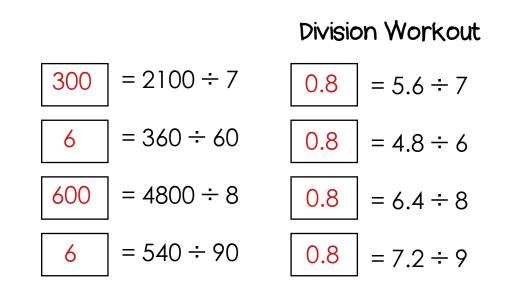
Colin and Coco's Daily Maths Workout

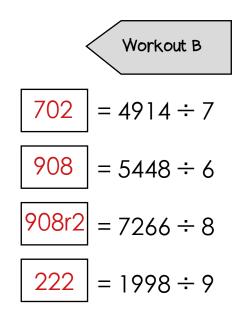
Workout 5.2

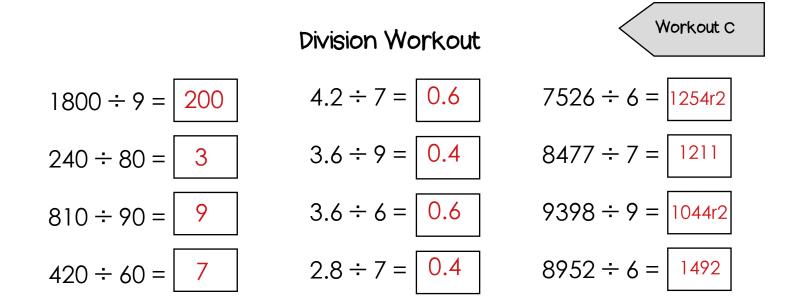
Division













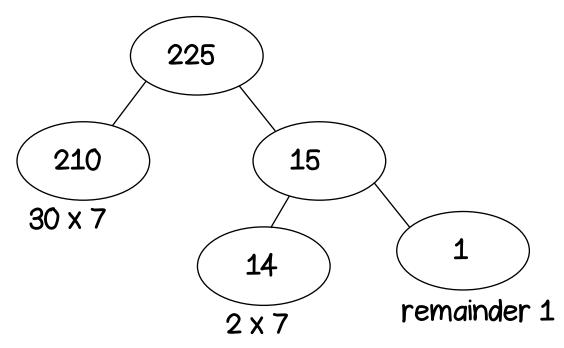
Division Game



To play:

Player 1: Throw the dice three times and make a three-digit number. Divide the number by seven by partitioning it. You score the remainder.

For example: If you throw 2, 2 and 5 you calculate $225 \div 7$



So you score 1 because there was a remainder of 1

Player 2 now has their turn.

Play continues, adding your remainders to get an ongoing total.

To win:

The winner is the first player to get a total of more than 18





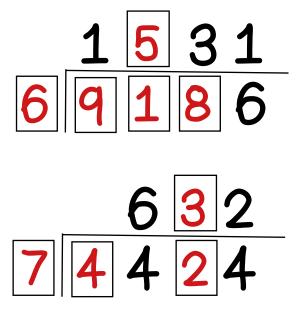


2 5 **3**
$$\div$$
 9 = **2 8** r 1

Solve the calculation in seven different ways.

Find the missing digits in the following calculations. Solve each one in several ways if possible.

Possible Solution



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



Badges Workout

Colin has between 2700 and 3000 badges to sell. He tries putting them in different sized packs.

When he puts the badges in packs of 9 he gets one badge left over.

When he puts the badges in packs of 7 he gets three badges left over.

Possible Solutions

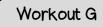
Investigate possible numbers of badges that Colin could have. 2719, 2782, 2845

What do you notice about the digit sum of all your answers? The digit sum is 19.

Is there a single digit pack size that would work exactly for your possible numbers of badges? No



Word Problem Workout



Colin is having a dinner party.

There will be 6 guests plus Colin. He has 1.575kg of Caribou nuts. Shared equally, how many grams of Caribou nuts can they have each? 225g

Colin has taken up jogging. He jogs 1056km in 6 months. If he jogs the same distance each month, how far does he jog each month? 176km

A chef buys crates of apples. Each crate has 135 apples in it. He buys 18 crates of apples. Each Apple Cake needs 9 apples. How many apple cakes can he make? 270

218 scouts go on a weekend camp. Each tent can sleep 8 scouts. How many tents do they need? 28

Colin is jogging again! He is aiming to jog a total of 30km. He does two sessions of 2.3km, and four sessions of 2.7km. The remaining distance he does in five equal jogging sessions. How far does he jog in each of those sessions? 2.92km

Create your own problems for $2115 \div 9$



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)

11
12
13
14 $3 \times 4 = 12$ $2 + 0 = 2$ 12 + 2 = 14
15
16
17
18
19
20