Colin and Coco's Daily Maths Workout

Workout 3.9 Answers

KeeP-uppI (Term 2)



KPIs for Term 2
Add numbers with up to 3-digits mentally
Subtract numbers with up to 3-digits mentally
Know and use multiplication facts for 3, 4 and 8 multiplication tables
Know and use division facts for 3, 4 and 8 multiplication tables



Workout A

Multiplication Facts Workout

$4 \times 6 =$ 24	$6 \times 8 =$ 48	52 $= 4 \times 13$	72 $= 4 \times 18$
$3 \times 9 =$ 27	$3 \times 8 =$ 24	136 $= 17 \times 8$	152 $= 19 \times 8$
$8 \times 4 =$ 32	$8 \times 9 =$ 72	54 $= 3 \times 18$	51 $= 3 \times 17$
$4 \times 9 =$ 36	$4 \times 12 =$ 48	39 $= 13 \times 3$	120 $= 15 \times 8$

Workout B

Division Workout

$36 \div 4 =$ 9	$56 \div 8 =$ 7	20 $= 80 \div 4$	14 $= 112 \div 8$
$24 \div 4 =$ 6	$24 \div 8 =$ 3	19 $= 76 \div 4$	15 $= 120 \div 8$
$48 \div 4 =$ 12	$32 \div 8 =$ 4	16 $= 64 \div 4$	17 $= 136 \div 8$
$32 \div 4 =$ 8	$72 \div 8 =$ 9	13 $= 52 \div 4$	18 $= 144 \div 8$

Workout C

Addition and Subtraction Workout

Use mental strategies and jottings to calculate:

$438 + 99 =$ 537	$656 - 90 =$ 566	$478 + 199 =$ 677
356 $= 436 - 80$	989 $= 686 + 303$	7 $= 404 - 397$
$59 + 636 =$ 695	$904 - 888 =$ 16	$286 + 620 =$ 906



Division Choice Game

Workout D

You need:
100 Board (on the next page.)
1-6 dice
A counter for each player

To play:
Take turns to throw the dice and move along the board, starting from 1.
Choose whether to divide the number you land on by 3 or 4 and score the remainder.

Keep track of your score.

I have landed on 23
23 ÷ 4 = 4 r3
23 ÷ 3 = 7 r2
so I will divide by 4 and score 3

To win:
The winner is the player with the highest score when a player reaches (or passes) 100



Division Choice Game Board

91	90	71	70	51	50	31	30	11	10
92	89	72	69	52	49	32	29	12	9
93	88	73	68	53	48	33	28	13	8
94	87	74	67	54	47	34	27	14	7
95	86	75	66	55	46	35	26	15	6
96	85	76	65	56	45	36	25	16	5
97	84	77	64	57	44	37	24	17	4
98	83	78	63	58	43	38	23	18	3
99	82	79	62	59	42	39	22	19	2
100	81	80	61	60	41	40	21	20	1



Missing Number Workout

Workout E

Put digits in the empty boxes so that the calculations are correct.

Complete them in several different ways.

Possible solution

$$34\boxed{7} + 199 = 54\boxed{6}$$

$$\boxed{9}07 - \boxed{8}9\boxed{4} = \boxed{1}\boxed{3}$$

$$6\boxed{0}0 - 8 = \boxed{5}9\boxed{2}$$

Are there any boxes that it is impossible to put a 1 in? Why? What about other impossible digits?

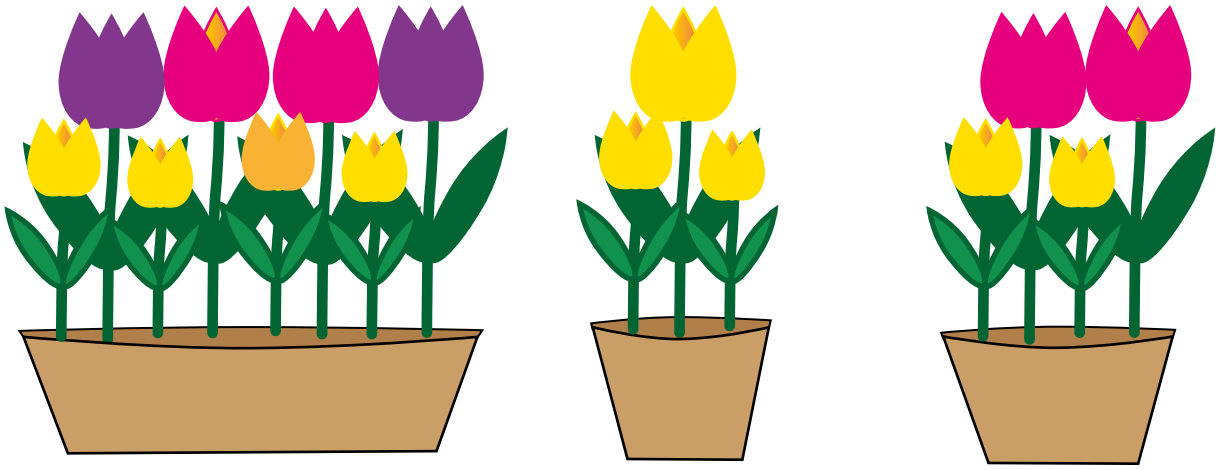
Are there any boxes that could have any of the digits in them?

Now complete it using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9 once each.

Flowers Challenge

Workout F

A garden centre has lots of pots of flowers.
They have either 3, 4 or 8 flowers in each pot.



Colin wants to buy 24 flowers. Investigate the combinations of pots he could buy.

8 pots of 3
6 pots of 4
3 pots of 8
1 pot of 8 and 4 pots of 4
2 pots of 8 and 2 pots of 4
3 pots of 4 and 4 pots of 3

Pots of 3 flowers cost £5, pots of 4 cost £7 and pots of 8 cost £13
What is the cheapest combination he can buy?

8 pots of 3	£40	1 pot of 8 and 4 pots of 4	£41
6 pots of 4	£42	2 pots of 8 and 2 pots of 4	£40
3 pots of 8	£39	3 pots of 4 and 4 pots of 3	£41

so 3 pots of 8 is cheapest.

The garden centre introduces pots of 5 flowers for £8
Is there a cheaper combination now?

The cost of a pot of 3 plus a pot of 5 is equal to the cost of a pot of 8

So 3 pots of 8 is still cheapest. Although using a pot of 3 plus a pot of 5 instead of a pot of 8 gives the same total cost.



Word Problem Workout

Workout G

1. Pencils are sold in packs of 8. They cost £4 per pack.
   A teacher buys three packs.
   How much does she pay?

   £12

2. Coco's crackers have eight in a pack.
   She has six full packs in the cupboard.
   She eats 6 crackers.
   How many crackers does she have left altogether?

   42

3. Colin saves £300
   He buys a new jacket for £99 and some new antler warmers for £125
   How much money does Colin have left?

   £76

4. 54 scouts go on a camping trip.
   Each tent can sleep 4 scouts.
   How many tents do they need?

   14 tents (13 r2)

5. Coco goes to visit some friends. They live 224 miles away.
   She travels 84 miles then has a rest. She travels another 98 miles.
   How far does she have left to travel?

   42 miles

Create your own problems adding or subtracting 3-digit numbers.



Matching Workout

Workout H

Match the calculation to the answer.
Fill in the missing buddies.

51 ÷ 3	160 ÷ 8
45 ÷ 3	104 ÷ 8
128 ÷ 8	17
13	19
57 ÷ 3	15
20	144 ÷ 8
18	16
42 ÷ 3	96 ÷ 8
12	14

Match the calculation to the answer.
Fill in the missing buddies.

Possible solution

236 + 99	346
438 – 99	343
247 + 99	335
244 + 99	336
444 – 99	333
435 – 99	339
234 + 99	347
446 – 99	345

Create your own Matching Workout.



Cards for the Games

1	2	3
4	5	6
7	8	9
0		