Colin and Coco's Daily Maths Workout

Workout 3.11

KeeP-uppI (Term 4)

KPIs for Term 4

Multiply 2-digit by 1-digit numbers mentally
Divide 2-digit by 1-digit numbers mentally
Multiply 2-digit by 1-digit numbers using a formal written method

Workout A

Multiplication Workout

Use a mental method, maybe with jottings, to solve these.

☐ = 4 × 17	☐ = 4 × 16	14 × 3 = ☐	4 × 20 = ☐
☐ = 15 × 5	☐ = 15 × 4	3 × 17 = ☐	2 × 30 = ☐
☐ = 3 × 16	☐ = 3 × 18	8 × 16 = ☐	80 × 5 = ☐
☐ = 18 × 8	☐ = 17 × 8	4 × 14 = ☐	40 × 3 = ☐

Workout B

Division Workout

Use a mental method, maybe with jottings, to solve these.

☐ = 22 ÷ 3	☐ = 21 ÷ 4	240 ÷ 3 = ☐	☐ = 42 ÷ 3
☐ = 37 ÷ 3	☐ = 38 ÷ 4	440 ÷ 4 = ☐	☐ = 56 ÷ 4
☐ = 20 ÷ 3	☐ = 49 ÷ 8	400 ÷ 8 = ☐	☐ = 96 ÷ 8
☐ = 17 ÷ 8	☐ = 59 ÷ 8	640 ÷ 8 = ☐	☐ = 57 ÷ 3

Workout C

Multiplication Workout

27 × 3 =	38 × 3 =	46 × 3 =	57 × 3 =
17 × 8 =	24 × 8 =	28 × 8 =	34 × 8 =
16 × 4 =	27 × 4 =	38 × 4 =	63 × 4 =

Multiplying and Dividing Game

Workout D

You need:
Multiplying and Dividing Game templates (see below for Game 1 and Game 2)
Card Set A (print off the cards) for each player.
Card Set B (print off the cards) for each player.

To play:
Pick Game Template 1 or Game Template 2
Each player shuffles Card Set A, places them face down and picks two cards to create a 2-digit number on the template.

Each player shuffles Card Set B, places them face down and picks a card.
It is placed on the Game Template to make a calculation.

Both players find the answer to their calculation using an efficient method.
Convince your opponent that your answer is correct.

To win:
The player who calculates the highest total wins a point.
The first player to get 10 points wins the Game.

Game 1

Game 2

Multiplying and Dividing Cards

Set A

0	1	2	3	4
5	6	7	8	9

Set B

3	4	5	8

Missing Number Workout

Workout E

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

Complete them in several different ways.

$$\begin{array}{r} 3\square \\ \times\ \square \\ \hline 2\square 6 \\ \hline \square \end{array}$$

$$\square\square \div 3 = \square \text{ r } 2$$

$$\square 0 \times \square = \square 20$$

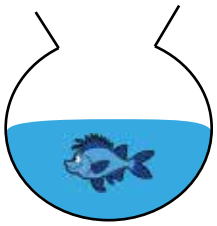
Coco thinks it is possible to put a 2 in any of the boxes, if she then adjusts the other digits accordingly. Do you agree?

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.

Goldfish Challenge

Workout F



KeePuppI and Coco have been putting goldfish in bowls.
They have fewer than 60 goldfish.

When KeePuppI puts 4 goldfish in each bowl there are 2 goldfish left over.

When Coco puts the same number of goldfish into bowls, with 3 in each bowl, there is one left over.

Investigate possible numbers of goldfish that they could have.

Find all the possible numbers of goldfish up to 60

Colin joins in with the same goldfish!
Colin puts 8 goldfish in each bowl and there are 2 left over.

Now how many goldfish could they have?

Word Problem Workout

Workout G

1. Fish and chips costs £8
   A group of 16 walkers all have fish and chips.
   What is the total cost?

2. There is a bag of 90 marbles.
   Coco tries to share them equally between 4 bags.
   How many does she have left over?

3. There are 68 legs in a cow barn.
   How many cows are there?

4. Colin plants some bulbs in equal rows. He has a bag of 150 bulbs.
   He plants 18 rows with 8 bulbs in each row.
   How many bulbs are left in the bag?

5. Coco is playing darts. She starts from 301
   She scores treble 18, treble 14 and treble 17
   How much does she have left to score?

6. At a show, chairs are set out in equal rows, on two sides of the hall.
   There are 8 rows of 30 chairs on each side of the hall.
   How many chairs are set out in total?

Create your own problems multiplying and dividing.

Workout H

Matching Workout

Match the calculation to the answer.
In your head? With jottings? Written method?
Fill in the missing buddies.

36 x 4	270
27 x 3	120
28 x 8	144
	320
80 x 4	81
3 x 90	152
17 x 3	
19 x 8	72
4 x 18	51

Match the calculation to the correct remainder.

Fill in the missing buddies.

33 ÷ 8

44 ÷ 5

66 ÷ 8

63 ÷ 5

100 ÷ 8

remainder 1

remainder 4

remainder

remainder 2

☐ ÷ 4

22 ÷ 3

26 ÷ 3

32 ÷ 5

39 ÷ 4

Create your own Matching Workout.