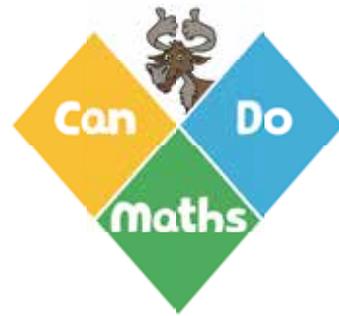




Colin and Coco's Daily Maths Workout



Workout 5.10

Answers

KeepPuppI (Term 3)



KPIs for Term 3

Multiply numbers up to 4-digits by 1 or 2-digits using a formal written method

Divide numbers up to 4-digits by 1-digits using a formal written method of division

Use known facts and place value to multiply a whole number by a decimal

Multiply decimal numbers (1 or 2 decimal places) by 1-digit using a formal written method



Multiply Workout

Workout A

	3	5	1	
	×		6	
	2	1	0	6

	5	6	3	
	×	1	8	
1	0	1	3	4

	2	3	5	1
	×		7	
1	6	4	5	7

	7	0	8	6	
	×	4	9		
3	4	7	2	1	4

	5	2	9	
	×		7	
3	7	0	3	

	7	8	9	
	×	3	6	
2	8	4	0	4

	4	3	0	9
	×		5	
2	1	5	4	5

	4	5	6	7	
	×	9	8		
4	4	7	5	6	6

Division Workout

Workout B

		2	3	2	4
3	6	9	7	2	

		1	2	1	3
7	8	4	9	1	

		9	1	4
3	2	7	4	2

		2	8	9
7	2	0	2	3

		1	1	5	1
6	6	9	0	6	

		1	4	2	0
6	8	5	2	0	

		8	3	2
5	4	1	6	0

		9	9	9
9	8	9	9	1

Multiplying Decimals Workout

Workout C

$3 \times 0.2 = 0.6$

$8 \times 0.3 = 2.4$

$3.6 \times 8 =$

$2.31 \times 3 =$

$7 \times 0.1 = 0.7$

$9 \times 0.6 = 5.4$

28.8

6.93

$6 \times 0.5 = 3$

$6 \times 1.2 = 7.2$

$8.7 \times 9 =$

$2.25 \times 8 =$

$5 \times 0.3 = 1.5$

$12 \times 0.6 = 7.2$

78.3

18



Multiplying Game

Workout D

You need:

Multiplying Game templates (see below for Game 1, Game 2 and Game 3)

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, 2 or 3

Each player shuffles Card Set A and picks cards to create a number on the template.

Each player shuffles Card Set B and picks cards to create a number on the template.

Both players now find the answer to their calculation.

To win:

The player who calculates the highest total wins a point.

The players then rearrange the cards to try and win a second point by calculating the lowest total.

The first player to get 10 points wins the Game.

Game 1

$$\boxed{A} \boxed{A} \boxed{A} \boxed{A} \times \boxed{B}$$

Game 2

$$\boxed{A} \boxed{A} \boxed{A} \times \boxed{B} \boxed{B}$$

Game 3

$$\boxed{A} \boxed{A} \boxed{A} \boxed{A} \times \boxed{B} \boxed{B}$$



Multiplying Cards

Set A

0	1	2	3	4
5	6	7	8	9

Set B

0	1	2	3	4
5	6	7	8	9



Division Workout

Workout E

Put digits in the empty boxes to make the calculations correct.

Complete them in several different ways, where possible.

Possible
Solution

$$\begin{array}{r} \boxed{1} \boxed{5} \boxed{1} \boxed{3} \\ \boxed{6} \overline{) 9 \boxed{0} 7 8} \end{array}$$

$$\begin{array}{r} \boxed{4} \boxed{1} \boxed{3} \\ \boxed{7} \overline{) 2 \boxed{8} \boxed{9} 1} \end{array}$$

Are there any boxes that it is impossible to put a digit in? Why?

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.



Multiplication and Division Investigations

Workout F

Investigation 1

$$7,654 \times 32 = 244,928$$

Use this fact to find:

- i) $244,928 \div 32 =$
 - ii) $244,928 \div 7,654 =$
 - iii) $7,655 \times 32 =$
 - iv) $7,654 \times 33 =$
- Find other facts.

$$8,656 \div 8 = 1,082$$

Use this fact to find:

- i) $1,082 \times 8 =$
 - ii) $8,656 \div 1,082 =$
 - iii) $1,082 \times 9 =$
 - iv) $1,082 \times 7 =$
- Find other facts.

Investigation 2: Always/Sometimes/Never True

The product of 4-digit number and a 2-digit number is a 6-digit number.

Investigation 3: Always/Sometimes/Never True

The quotient of 4-digit number and a 1-digit number is a 4-digit number.



Word Problem Workout

Workout G

1. A ruler is 0.3m long.
How far can Colin measure using 9 rulers? 2.7m

2. A toy car costs £6.75
Coco buys 8 cars.
How much does she spend in total? £54

3. Coco shares £468 equally between herself and 5 friends.
How much does each person receive? £78

4. A jug holds 1,675ml of water.
Colin thinks he needs 6 jugs to hold 10 litres of water.
Do you agree? Give reasons for your answer. Yes. $6 \times 1675 = 10,050\text{ml}$

5. Coco runs 3.2km every day for one week.
How far does she run altogether? 22.4km

6. A shirt costs £11.25.
Colin buys 8 shirts.
How much money does he have left from £100? £10

Create your own word problems involving multiplication and division of decimals.



Matching Workout

Match the calculations with the correct answer.
Fill in the missing buddies.

Possible
Solution

$2,748 \div 3$		920
$4,590 \div 5$		919
$5,514 \div 6$		918
$6,440 \div 7$		917
$8,226 \div 9$		916
$3,668 \div 4$		915
$7,320 \div 8$		914

Match the calculations with the correct answer.
Fill in the missing buddies.

Possible
Solution

6×0.4		36
3×1.2		0.36
9×0.04		0.24
8×4.5		3.6
12×0.02		5
0.8×8		2.4
4×1.25		6.4

Create your own Matching Workouts