



Colin and Coco's Daily Maths Workout



Workout 5.9

Answers

KeepPupPI (Term 2)



KPIs for Term 2

Add and subtract whole numbers with more than 4 digits choosing efficient methods

Add and subtract decimals with up to 3 decimal places choosing efficient methods

Multiply and divide whole numbers and decimals by 10, 100 and 1000

Identify and use multiples, factors and prime numbers.



Add and Subtract Workout

(In your head ? With jottings? Written method?)

Workout A

$21,600 + 5,500 = 27,100$

$21,300 - 5,500 = 15,800$

$1.583 + 0.67 = 2.253$

$42,500 + 9,999 = 52,499$

$42,500 - 9,999 = 32,501$

$2.9 + 1.673 = 4.573$

$78,679 + 57,586 = 136,265$

$73,529 - 57,586 = 15,943$

$1.675 - 0.471 = 1.204$

$235,768 + 87,679 = 323,447$

$346,293 - 83,678 = 262,615$

$3.452 - 0.9 = 2.552$

Multiplying and Dividing by 10, 100 and 1000 Workout

Workout B

$1.23 \times 10 = 12.3$

$1.23 \div 10 = 0.123$

$10 \times 45.06 = 450.6$

$1.203 \times 100 = 120.3$

$10.3 \div 100 = 0.103$

$45.6 \div 100 = 0.456$

$0.017 \times 1,000 = 17$

$147 \div 1,000 = 0.147$

$100 \times 2.003 = 200.3$

$0.068 \times 100 = 6.8$

$345.1 \div 100 = 3.451$

$2030 \div 1,000 = 2.03$

$4.007 \times 1,000 = 4,007$

$40,070 \div 1,000 = 40.07$

$2.03 \times 1,000 = 2,030$

Factors, Multiples and Primes Workout

Workout C

Find the factors of:

$8 \quad 1, 2, 4, 8$

$12 \quad 1, 2, 3, 4, 6, 12$

$16 \quad 1, 2, 4, 8, 16$

$20 \quad 1, 2, 4, 5, 10, 20$

$29 \quad 1, 29$

Find five multiples of:

$7 \quad 7, 14, 21, 28, 35$

$8 \quad 8, 16, 24, 32, 40$

$12 \quad 12, 24, 36, 48, 60$

$15 \quad 15, 30, 45, 60, 75$

$50 \quad 50, 100, 150, 200, 250$

Find the prime numbers between:

$0 \text{ and } 10 \quad 2, 3, 5, 7$

$10 \text{ and } 20 \quad 11, 13, 17, 19$

$30 \text{ and } 40 \quad 31, 37$

$40 \text{ and } 50 \quad 41, 43, 47$

$50 \text{ and } 100 \quad 53, 59, 61, 67, 71, 73, 79, 83, 89, 97$



Adding and Subtracting Decimals

Workout D

You need:

Adding and Subtracting 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 four 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 first player to get 10 points wins the Game.

Game 1

$$\boxed{A}.\boxed{A}\boxed{A}\boxed{A} + \boxed{B}.\boxed{B}\boxed{B}\boxed{B}$$

Game 2

$$\boxed{A}.\boxed{A}\boxed{A}\boxed{A} - \boxed{B}.\boxed{B}\boxed{B}\boxed{B}$$

Game 3

$$\boxed{A}.\boxed{A}\boxed{A} - \boxed{B}.\boxed{B}\boxed{B}\boxed{B}$$



Adding and Subtracting 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



Missing Number Workout

Workout E

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

Complete them in several different ways, where possible.

Possible
Solution

$$\begin{array}{r} 1 . \boxed{3} 2 \boxed{4} \\ + \boxed{1} . 9 \boxed{8} 5 \\ \hline 3 . 3 0 \boxed{9} \end{array}$$

$$\begin{array}{r} \boxed{2} . 2 \boxed{0} 7 \\ - 0 . \boxed{5} 2 \\ \hline 1 . \boxed{6} 8 \boxed{7} \end{array}$$

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

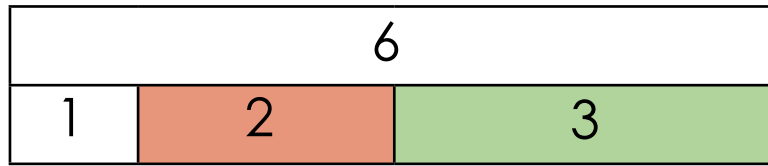
Are there any boxes that could have any of the digits in them?

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



Perfect Numbers Investigation

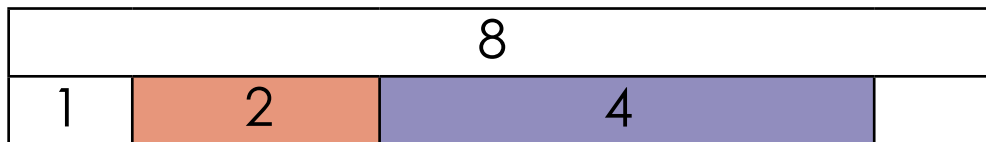
E.g. 1 The factors of 6 are 1, 2, 3 and 6.



$$1 + 2 + 3 = 6$$

So 6 is called a PERFECT Number.

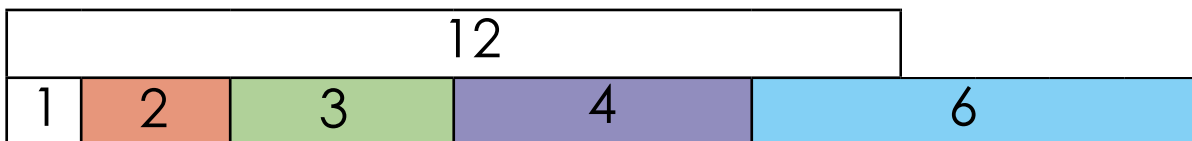
E.g. 2 The factors of 8 are 1, 2, 4 and 8.



$$1 + 2 + 4 < 8$$

So 8 is called a DEFICIENT Number

E.g. 3 The factors of 12 are 1, 2, 3, 4, 6 and 12.



$$1 + 2 + 3 + 4 + 6 > 12$$

So 12 is called an ABUNDANT Number

Investigate which numbers between 1 and 20 are Perfect, Deficient or Abundant.



Word Problem Workout

Workout G

1. Coco measured the thickness of a ream of paper.
It is 245mm.
The ream has 100 sheets of paper.
How thick is one piece of paper?
2.45mm
2. A toy car costs £6.05
A real car costs £6500
Which is more expensive 1,000 toy cars or the real car?
By how much?
**The real car
£450**
3. Coco pays £468 for 100 dolls.
How much does one doll cost?
£4.68
4. Colin buys a car for £18,500
He sells the car for £9800
How much does money does he lose?
£8700
5. Coco runs 1.75km on Monday.
She runs 0.835km on Tuesday.
How far does she run in total?
2.585km
6. A jug holds 3.2 litres of water.
A bottle holds 1.675 litres of water.
What is the difference in the amount of water the
jug and the bottle holds?
1.525 litres

Create your own word problems involving the addition,
subtraction, multiplication and division of decimals.



Matching Workout

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

Possible
Solution

100×0.203		23
0.023×1000		203
$203 \div 100$		20.3
$20.3 \div 100$		20.03
$2.3 \div 100$		0.203
$200.3 \div 10$		2.03
0.203×1000		0.023

Match the number facts.
Fill in the missing buddies.

Possible
Solution

Factor of 15		30
Prime Number		9
Prime Number		3
Multiple of 4		31
Factor of 45		1
Multiple of 6		52
Factor of 13		7

Create your own Matching Workouts