KeeP-uppI Maths Workout

Year 5 - Pack 2 Answers

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 × 10 = 12.3	1.23 ÷ 10 = 0.123	10 × 45.06 = 450.6
1.203 × 100 = 120.3	10.3 ÷ 100 = 0.103	45.6 ÷ 100 = 0.456
0.017 × 1,000 = 17	147 ÷ 1,000 = 0.147	100 × 2.003 = 200.3
0.068 × 100 = 6.8	345.1 ÷ 100 = 3.451	2030 ÷ 1,000 = 2.03
4.007 × 1,000 = 4,007	40,070 ÷ 1,000 = 40.07	2.03 × 1,000 = 2,030

Factors, Mulitples and Primes Workout

Workout C

Find the factors of:		Find five multiples of:		Find the prime numbers between:	
8	1,2,4,8	7	7,14, 21, 28, 35	0 and 10	2,3,5,7
12	1,2,3,4,6,12	8	8, 16, 24, 32, 40	10 and 20	11,13,17,19
16	1,2,4,8,16	12	12,24,36,48,60	30 and 40	31,37
20	1,2,4,5,10,20	15	15,30,45,60,75	40 and 50	41,43,47
29	1,29	50	50,100,150,200,250	50 and 100	53,59,61,67,71,73,79, 83,89,97

Adding and Subtracting Decimals

Workout D

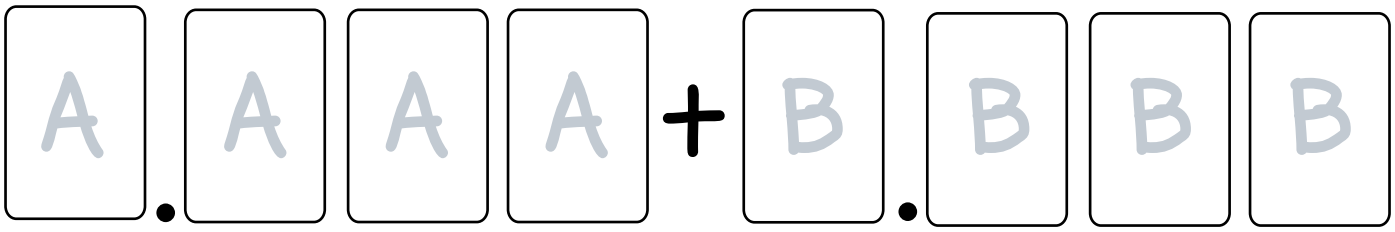
You need:
Adding and Subtracting Game templates (see below for Game 1, Game 2 and Game 3)
Card Set A (print off the cards) for each player.
Card Set B (print off the cards) for each player.

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.

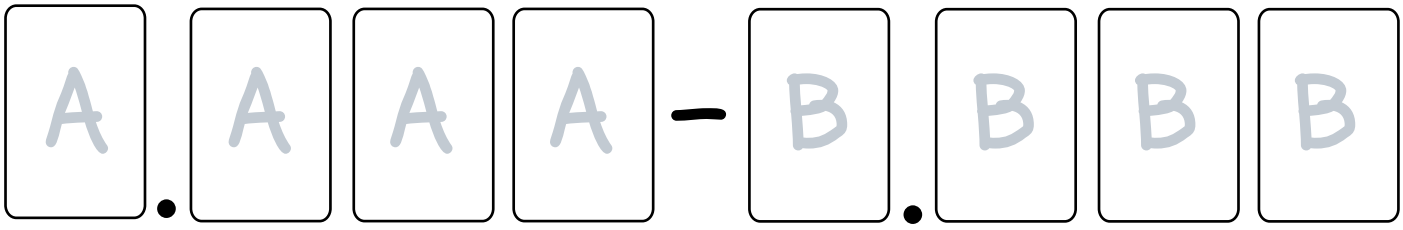
Both players now find the answer to their calculation.

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

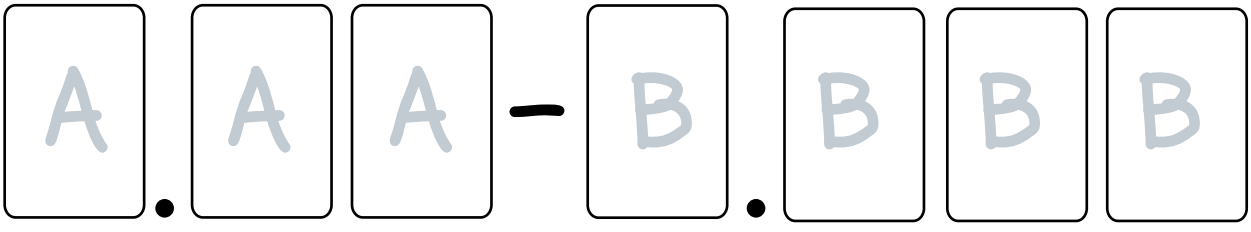
Game 1



Game 2



Game 3



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

$$\begin{array}{r} 1.\boxed{3}2\boxed{4} \\ +\boxed{1}.9\boxed{8}5 \\ \hline 3.30\boxed{9} \end{array}$$

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

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

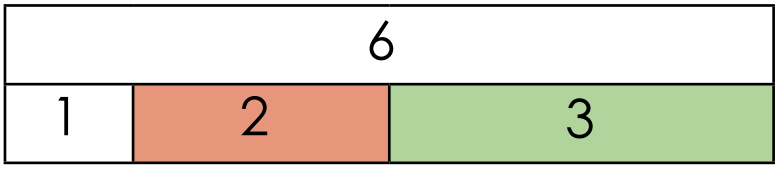
Are there any boxes that could have any of the digits in them?

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

Workout F

Perfect Numbers Investigation

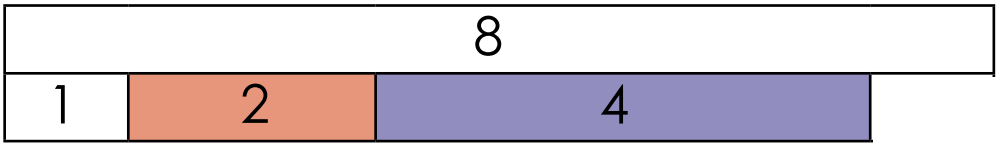
E.g. 1 The factors of 6 are 1, 2, 3 and 6.



$1 + 2 + 3 = 6$

So 6 is called a PERFECT Number.

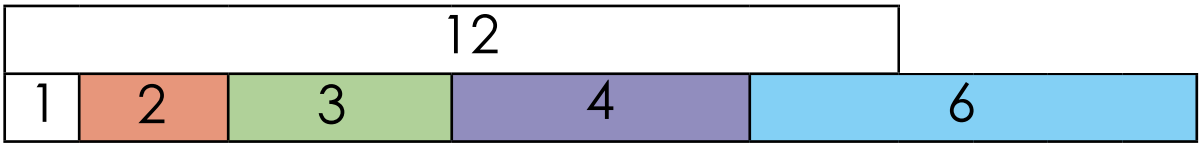
E.g. 2 The factors of 8 are 1, 2, 4 and 8.



$1 + 2 + 4 < 8$

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

Workout H

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

Possible Solution

100 × 0.203		23
0.023 × 1000		203
203 ÷ 100		20.3
20.3 ÷ 100		20.03
2.3 ÷ 100		0.203
200.3 ÷ 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