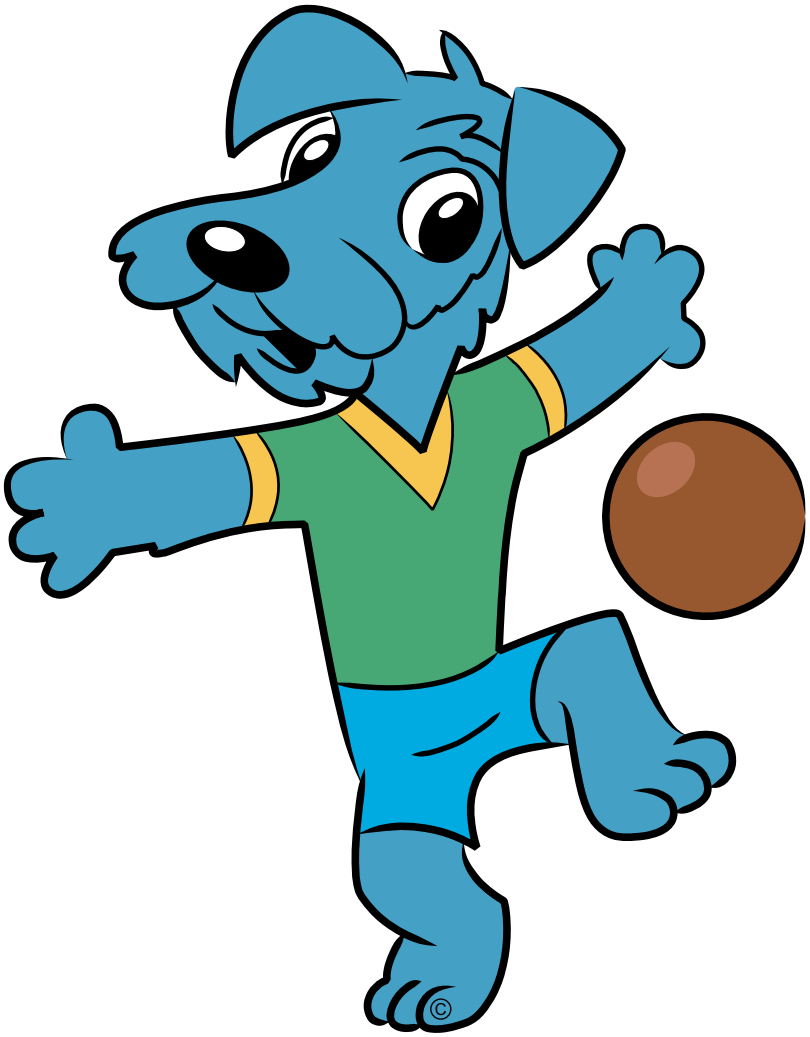
Colin and Coco's Daily Maths Workout

Workout 4.12

KeeP-uppI (Term 5)



KPIs for Term 5

Divide 1 and 2-digit numbers by 10 and 100
Add and subtract fractions with the same denominator beyond the whole
Find families of equivalent fractions
Recall factor-factor-product relationships for 6,7,9,11 and 12 multiplication tables

Divide by 10 and 100 Workout

Workout A

$3 \div 10 =$	$7 \div 100 =$	$26 \div 100 =$	$9 \div 10 =$
$13 \div 10 =$	$9 \div 100 =$	$62 \div 100 =$	$9 \div 100 =$
$31 \div 10 =$	$1 \div 100 =$	$71 \div 100 =$	$53 \div 10 =$
$57 \div 10 =$	$5 \div 100 =$	$87 \div 100 =$	$53 \div 100 =$
$9 \div 10 =$	$3 \div 100 =$	$99 \div 100 =$	$98 \div 100 =$

Fractions Workout

Workout B

Calculate

$\frac{2}{3} + \frac{2}{3} =$	$\frac{5}{4} - \frac{2}{4} =$	$\frac{3}{7} + \square = \frac{9}{7}$
$\frac{5}{7} + \frac{4}{7} =$	$\frac{8}{7} - \frac{3}{7} =$	$\square + \frac{4}{5} = \frac{8}{5}$
$\frac{3}{6} + \frac{5}{6} =$	$\frac{7}{5} - \frac{4}{5} =$	$\frac{10}{7} - \square = \frac{6}{7}$
$\frac{5}{10} + \frac{8}{10} =$	$\frac{15}{12} - \frac{7}{12} =$	$\square - \frac{7}{9} = \frac{8}{9}$
$\square = \frac{7}{9} + \frac{8}{9}$	$\square = \frac{15}{9} - \frac{4}{9}$	$\square = \frac{10}{12} + \frac{11}{12}$

Complete the family of equivalent fractions

$\frac{1}{2} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$

$\frac{1}{3} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$

$\frac{1}{4} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$

$\frac{1}{5} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$

Times Tables Workout

Workout C

$6 \times 7 =$	$12 \times 6 =$	$72 \div 6 =$	$8 \times 12 =$
$6 \times 9 =$	$9 \times 12 =$	$108 \div 12 =$	$63 \div 7 =$
$6 \times 6 =$	$12 \times 11 =$	$84 \div 7 =$	$72 \div 9 =$
$7 \times 7 =$	$12 \times 12 =$	$132 \div 12 =$	$132 \div 11 =$
$8 \times 7 =$	$11 \times 11 =$	$96 \div 12 =$	$81 \div 9 =$

Times Tables Game

Workout D

You need:
Game Template for each player
Card Set A (print off the cards) for each player.
Card Set B (print off the cards) for each player.

To play:
Each player shuffles Card Set A, places them face down and picks 5 cards. They turn the cards over and place them on the template.
Each player shuffles Card Set B, places them face down and picks 5 cards. They turn the cards over and decides where to place each card on the template.

Both players now calculate the 5 products.
Both players find the sum of their 5 products.

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

Game Template

A	x	B	A	x	B
A	x	B	A	x	B
A	x	B			

Times Tables Cards

Set A

5	6	7	8
9	10	11	12

Set B

6	7	8
9	11	12

Adding and Subtracting Workout

Workout E

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

Complete them in several different ways, where possible.

$$\frac{\square}{\square} + \frac{\square}{8} = \frac{9}{8}$$

$$\frac{\square\square}{\square} - \frac{5}{9} = \frac{\square}{9}$$

$$\frac{9}{7} = \frac{\square}{\square} + \frac{3}{7} + \frac{\square}{7}$$

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 at least once each.

Equivalent Fraction Investigation

Workout F

Complete the Times Tables grid.

· x	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

Pick 2 rows ... e.g. Row 1 and Row 5

Write out all the multiples to create a family of equivalent of fractions.

1	2	3	4	5	6	7	8	9	10	11	12
5	10	15	20	25	30	35	40	45	50	55	60

Use other rows to investigate families of equivalent fractions.

Word Problem Workout

Workout G

1. Colin and Coco are designing flags.
   $\frac{3}{5}$ of Colin's flag is blue. $\frac{6}{10}$ of Coco's flag is blue.
   Who has the most blue on their flag?

2. A pallet of 100 slabs weighs 550kg
   What does one slab weigh?

3. Ten tickets to see a show cost £375?
   How much does each ticket cost?

4. In ten days the elephant at the zoo is fed 85kg of grain.
   He is fed the same amount each day.
   How much grain is he fed each day?

5. A Farmer has a herd of 100 cows. He caters for them to eat 1290kg of food in total per day.
   How much is that per cow?

6. A car is advertised for sale at £9995
   It can be bought with a first payment of £1500 then 100 equal installments.
   How much is each installment?

7. Coco gets seven out of ten in a French test. Colin gets fourteen out of twenty.
   Colin says he is better at French. Do you agree? Explain your thinking.

Create your own word problems.

Matching Buddies Workouts

Workout H

÷10 and ÷100
Fill in the missing buddies.

		0.77
71 ÷ 100		0.17
7 ÷ 100		1.7
17 ÷ 100		
70 ÷ 100		0.71
77 ÷ 10		7.7
77 ÷ 100		

Multiplication Facts Workout
Fill in the missing buddies.

9 x 9		110
		132
8 x 9		96
11 x 12		6 x 12
9 x 7		36
8 x 12		
6 x 6		81

Division Facts Workout
Fill in the missing buddies.

108 ÷ 9		6
72 ÷ 12		7
54 ÷ 6		8
		9
132 ÷12		10
56 ÷ 7		11
110 ÷ 11		12

Equivalent Fractions
Fill in the missing buddies.

$\frac{1}{4}$		$\frac{4}{20}$
$\frac{1}{6}$		$\frac{9}{12}$
$\frac{1}{8}$		$\frac{6}{24}$
$\frac{3}{4}$		$\frac{8}{24}$
$\frac{1}{5}$		
$\frac{2}{3}$		$\frac{3}{24}$
		$\frac{4}{24}$

Create your own Matching Workouts