

# Colin and Coco's Daily Maths Workout



Workout 4.12

Answers

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

$$3 \div 10 = 0.3$$

$$7 \div 100 = 0.07$$

$$71 \div 100 = 0.71$$

$$5 \div 100 = 0.05$$

$$87 \div 100 = 0.87$$

$$3 \div 100 = 0.03$$

Complete the family of

equivalent fractions

#### Calculate

$$\frac{2}{3} + \frac{2}{3} = \boxed{\frac{4}{3}}$$

$$\frac{5}{4} - \frac{2}{4} = \boxed{\frac{3}{4}}$$

$$\frac{3}{7} + \boxed{\frac{6}{7}} = \frac{9}{7}$$

Fractions Workout

## Workout B

$$\frac{5}{7} + \frac{4}{7} = \boxed{\frac{9}{7}}$$

$$\frac{8}{7} - \frac{3}{7} = \boxed{\frac{5}{7}}$$

$$\left[ \frac{4}{5} \right] + \frac{4}{5} = \frac{8}{5}$$

$$\frac{3}{6} + \frac{5}{6} = \boxed{\frac{8}{6}}$$

$$\frac{7}{5} - \frac{4}{5} = \boxed{\frac{3}{5}}$$

$$\frac{10}{7} - \boxed{\frac{4}{7}} = \frac{6}{7}$$

$$\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$$

$$\frac{5}{10} + \frac{8}{10} = \boxed{\frac{13}{10}}$$

$$\frac{15}{12} - \frac{7}{12} = \boxed{\frac{8}{12}}$$

$$\frac{15}{9} - \frac{7}{9} = \frac{8}{9}$$

$$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16}$$

$$\left[\frac{15}{9}\right] = \frac{7}{9} + \frac{8}{9}$$

$$\left[ \frac{11}{9} \right] = \frac{15}{9} - \frac{4}{9}$$

$$\left| \frac{21}{12} \right| = \frac{10}{12} + \frac{11}{12}$$

# $\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{4}{20}$

 $8 \times 12 =$ 

## Times Tables Workout

$$6 \times 7 = \boxed{42}$$

96

$$7 \times 7 = \boxed{49}$$

$$12 \times 12 = \boxed{144}$$

$$8 \times 7 = \boxed{56}$$



#### Times Tables Game

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.

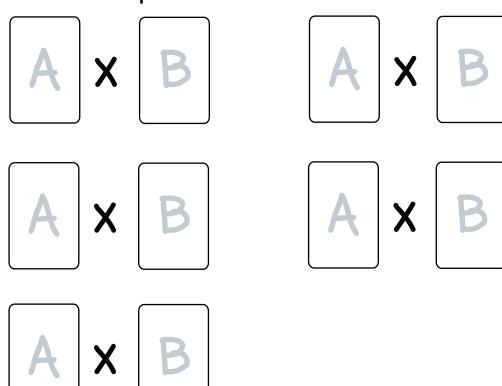
Both players now calculate the 5 products. Both players find the sum of their 5 products.

#### To win:

The player who calculates the highest total wins one point.

The first player to get 10 points wins the Game.

## Game Template





#### Times Tables Cards

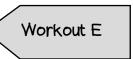
Set A

Set B

q



#### Adding and Subtracting Workout



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

Complete them in several different ways, where possible.

#### Possible Solution

$$\frac{6}{8} + \frac{3}{8} = \frac{9}{8}$$

$$\frac{1}{9} - \frac{5}{9} = \frac{5}{9}$$

$$\frac{9}{7} + \frac{3}{7} + \frac{2}{7}$$

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.

. <b>X</b>	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?

Both the same

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

5.5kg

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

£37.50

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?

8.5kg

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?
£84.95

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.

No. They are the same.  $\frac{7}{10} = \frac{14}{20}$ 

Create your own word problems.



## Matching Buddies Workouts

÷10 and ÷100 Fill in the missing buddies.

17 ÷ 10 <	/ 0.77
71 ÷ 100	0.17
7 ÷ 100	1.7
17 ÷ 100	0.07
70 ÷ 100	0.71
77 ÷ 10	7.7
77 ÷ 100 /	0.7

# Multiplication Facts Workout Fill in the missing buddies.

9×9 \		110
10 x 11 \rightarrow		132
8 x 9		/ 96
11 x 12		6 × 12
9×7	$\langle \rangle$	<b>4</b> 36
8 x 12		63
6×6		81

Division Facts Workout Fill in the missing buddies.

108 ÷ 9		6
72 ÷ 12		7
54 ÷ 6		/ 8
84 ÷ 12		9
132 ÷12	$\langle \rangle$	/ 10
56 ÷ 7	$\nearrow$	11
110 ÷ 11		12

Equivalent Fractions
Fill in the missing buddies.

1/4		/ 4/20
1 6 1 8 3 4 1 5 2 3	1	4 / 20 9 12 6 24 8 / 24 8 12 3 24 4 24
1/8		<u>6</u> 24
3 4		/ <u>8</u> / <del>24</del>
1/5	$\overline{}$	8 12
$\frac{2}{3}$		3 24
1/3		4 24

Create your own Matching Workouts