



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

Workout A

$3 \div 10 = 0.3$

$7 \div 100 = 0.07$

$26 \div 100 = 0.26$

$9 \div 10 = 0.9$

$13 \div 10 = 1.3$

$9 \div 100 = 0.09$

$62 \div 100 = 0.62$

$9 \div 100 = 0.09$

$31 \div 10 = 3.1$

$1 \div 100 = 0.01$

$71 \div 100 = 0.71$

$53 \div 10 = 5.3$

$57 \div 10 = 5.7$

$5 \div 100 = 0.05$

$87 \div 100 = 0.87$

$53 \div 100 = 0.53$

$9 \div 10 = 0.9$

$3 \div 100 = 0.03$

$99 \div 100 = 0.99$

$98 \div 100 = 0.98$

Fractions Workout

Workout B

Calculate

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

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

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

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

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

$\frac{4}{5} + \frac{4}{5} = \frac{8}{5}$

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

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

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

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

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

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

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

$\frac{11}{9} = \frac{15}{9} - \frac{4}{9}$

$\frac{21}{12} = \frac{10}{12} + \frac{11}{12}$

Complete the family of equivalent fractions

$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$

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

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

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

Times Tables Workout

Workout C

$6 \times 7 = 42$

$12 \times 6 = 72$

$72 \div 6 = 12$

$8 \times 12 = 96$

$6 \times 9 = 54$

$9 \times 12 = 108$

$108 \div 12 = 9$

$63 \div 7 = 9$

$6 \times 6 = 36$

$12 \times 11 = 132$

$84 \div 7 = 12$

$72 \div 9 = 8$

$7 \times 7 = 49$

$12 \times 12 = 144$

$132 \div 12 = 11$

$132 \div 11 = 12$

$8 \times 7 = 56$

$11 \times 11 = 121$

$96 \div 12 = 8$

$81 \div 9 = 9$



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

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

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

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

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

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



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.

Possible Solution

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

$$\frac{\boxed{1}\boxed{0}}{\boxed{9}} - \frac{5}{9} = \frac{\boxed{5}}{9}$$

$$\frac{9}{7} = \frac{\boxed{4}}{\boxed{7}} + \frac{3}{7} + \frac{\boxed{2}}{7}$$

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.

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

- 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
- A pallet of 100 slabs weighs 550kg
What does one slab weigh?
5.5kg
- Ten tickets to see a show cost £375?
How much does each ticket cost?
£37.50
- 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
- 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?
12.9kg
- 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
- 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

$\div 10$ and $\div 100$
Fill in the missing buddies.

$17 \div 10$		0.77
$71 \div 100$		0.17
$7 \div 100$		1.7
$17 \div 100$		0.07
$70 \div 100$		0.71
$77 \div 10$		7.7
$77 \div 100$		0.7

Multiplication Facts Workout
Fill in the missing buddies.

9×9		110
10×11		132
8×9		96
11×12		6×12
9×7		36
8×12		63
6×6		81

Division Facts Workout
Fill in the missing buddies.

$108 \div 9$		6
$72 \div 12$		7
$54 \div 6$		8
$84 \div 12$		9
$132 \div 12$		10
$56 \div 7$		11
$110 \div 11$		12

Equivalent Fractions
Fill in the missing buddies.

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

Create your own Matching Workouts