KeeP-uppI Maths Workout

Year 4 - Pack 5 Answers

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 ÷ 10 = 0.3	7 ÷ 100 = 0.07	26 ÷ 100 = 0.26	9 ÷ 10 = 0.9
13 ÷ 10 = 1.3	9 ÷ 100 = 0.09	62 ÷ 100 = 0.62	9 ÷ 100 = 0.09
31 ÷ 10 = 3.1	1 ÷ 100 = 0.01	71 ÷ 100 = 0.71	53 ÷ 10 = 5.3
57 ÷ 10 = 5.7	5 ÷ 100 = 0.05	87 ÷ 100 = 0.87	53 ÷ 100 = 0.53
9 ÷ 10 = 0.9	3 ÷ 100 = 0.03	99 ÷ 100 = 0.99	98 ÷ 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 × 7 = 42	12 × 6 = 72	72 ÷ 6 = 12	8 × 12 = 96
6 × 9 = 54	9 × 12 = 108	108 ÷ 12 = 9	63 ÷ 7 = 9
6 × 6 = 36	12 × 11 = 132	84 ÷ 7 = 12	72 ÷ 9 = 8
7 × 7 = 49	12 × 12 = 144	132 ÷ 12 = 11	132 ÷ 11 = 12
8 × 7 = 56	11 × 11 = 121	96 ÷ 12 = 8	81 ÷ 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

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.

Possible Solution

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

$$\frac{10}{9} - \frac{5}{9} = \frac{5}{9}$$

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

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.

· 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?

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?

12.9kg

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

Workout H

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

Division Facts Workout
Fill in the missing buddies.

108 ÷ 9		6
72 ÷ 12		7
54 ÷ 6		8
84 ÷ 12		9
132 ÷12		10
56 ÷ 7		11
110 ÷ 11		12

Equivalent Fractions
Fill in the missing buddies.

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

Create your own Matching Workouts