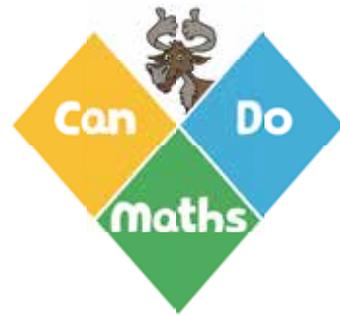




Colin and Coco's Daily Maths Workout



Workout 4.13

Answers

Keep-uppI (Term 6)



KPIs for Term 6

Add and subtract decimal numbers (up to 2 decimal places) including measures and money

Find the area of rectilinear shapes by counting squares

Describe and plot positions on a 2-D grid as coordinates in the first quadrant

Convert between analogue and digital 12 and 24-hour clocks and other units of time



Add and Subtract Decimals Workout

Workout A

$0.2 + 0.4 = 0.6$

	0	.	6	7	
	+	0	.	8	5
<hr/>					
	1	.	5	2	
<hr/>					

$0.7 - 0.4 = 0.3$

	0	.	9	4	
	-	0	.	4	6
<hr/>					
	0	.	4	8	
<hr/>					

$0.5 + 0.4 = 0.9$

	1	.	6	7	
	+	0	.	4	6
<hr/>					
	2	.	1	3	
<hr/>					

$0.9 - 0.6 = 0.3$

	1	.	8	2	
	-	0	.	4	6
<hr/>					
	1	.	3	2	
<hr/>					

$1.3 + 0.6 = 1.9$

	2	.	8	7	
	+	1	.	7	2
<hr/>					
	4	.	5	9	
<hr/>					

$1.7 - 0.3 = 1.4$

	2	.	3	4	
	-	1	.	6	7
<hr/>					
	0	.	6	7	
<hr/>					

$2.1 + 1.7 = 3.8$

$3.6 - 1.3 = 2.3$

$1.3 + 0.8 = 2.1$

$7.4 - 4.7 = 2.7$

Coordinates Workout

Workout B

Describe the points:

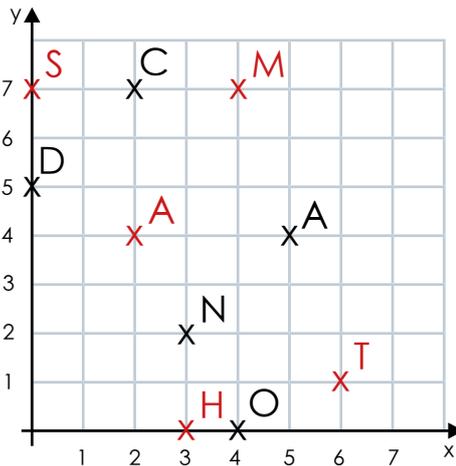
C (2, 7)

A (5, 4)

N (3, 2)

D (0, 5)

O (4, 0)



Plot the points:

M (4, 7)

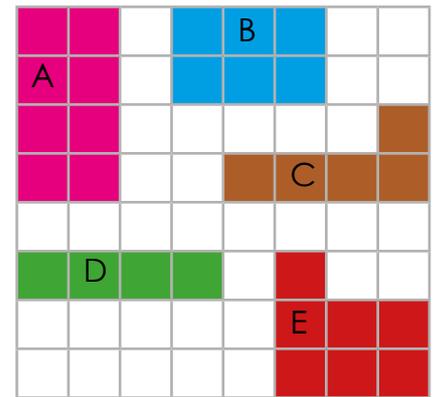
A (2, 4)

T (6, 1)

H (0, 3)

S (7, 0)

Put the shapes in order of area from smallest to largest.



D C B E A
smallest largest

Time Workout

Workout C

Convert to 24-hour clock:

5:05 p.m. 17:05

5:25 a.m. 05:25

2:45 p.m. 14:45

11:45 a.m. 11:45

Convert to 12-hour clock:

16:35 4:35 p.m.

23:05 11:05 p.m.

02:03 2:03 a.m.

12:40 12:40 p.m.

Complete the statements:

5 minutes = 300 seconds 7 weeks = 49 days

8 minutes = 480 seconds 9 weeks = 63 days

4 hours = 240 minutes 6 years = 72 months

9 hours = 540 minutes 9 years = 108 months



Adding and Subtracting Decimals Game

Workout D

You need:

Adding and Subtracting Game templates (see below for Game 1 or Game 2)

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 or 2

Each player shuffles Card Set A and picks four (or six) cards to create a number on template 1 (or 2).

Each player shuffles Card Set B and picks four (or six) cards to create a number on template 1 (or 2).

Both players now find the answer to their calculation.

To win:

The player who calculates the highest total wins a point.

The players then rearrange the cards to try and win a second point by calculating the lowest total.

The first player to get 10 points wins the Game.

Game 1

$$\boxed{A}.\boxed{A} + \boxed{B}.\boxed{B}$$

Note

The Game Templates can be adapted by changing the '+' to a '-' to practise subtracting decimals.

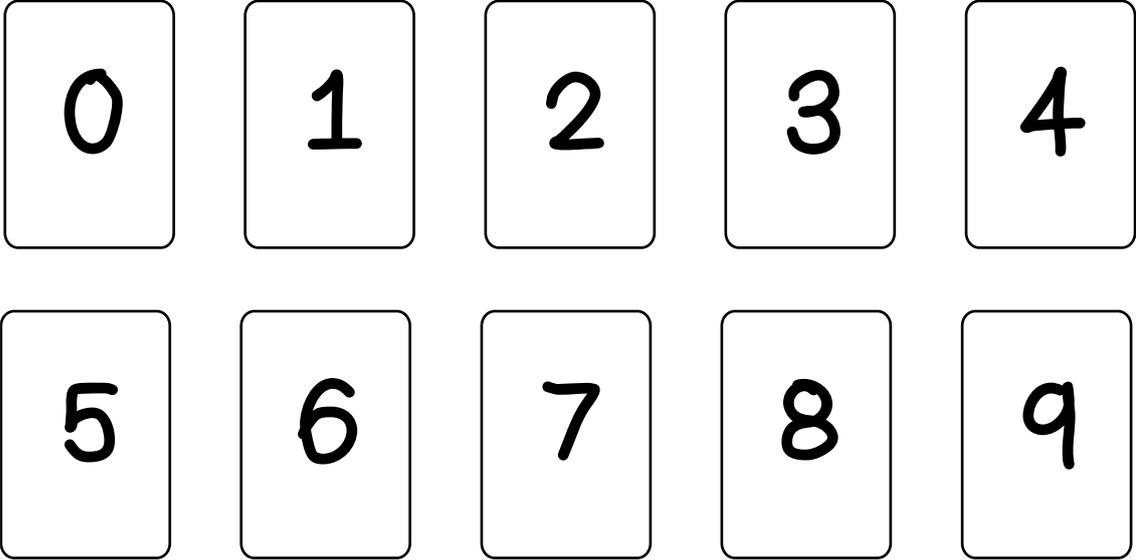
Game 2

$$\boxed{A}.\boxed{A}\boxed{A} + \boxed{B}.\boxed{B}\boxed{B}$$

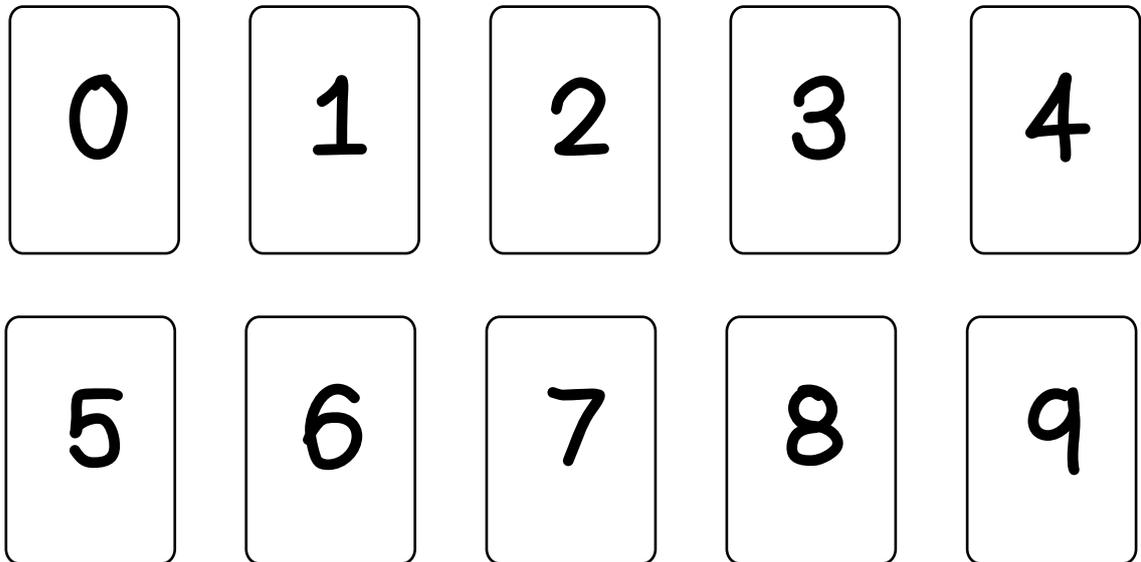


Adding and Subtracting Cards

Set A



Set B





Adding and Subtracting Decimals Workout

Workout E

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

Complete them in several different ways, where possible.

Possible Solution

$$0.7 + 1.\boxed{9} = 2.\boxed{6}$$

$$\begin{array}{r} 1.\boxed{4}2 \\ + \boxed{3}.7\boxed{8} \\ \hline 5.\boxed{2}0 \end{array}$$

$$\begin{array}{r} \boxed{1}.2\boxed{5} \\ - 0.\boxed{7}6 \\ \hline \boxed{0}.49 \end{array}$$

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

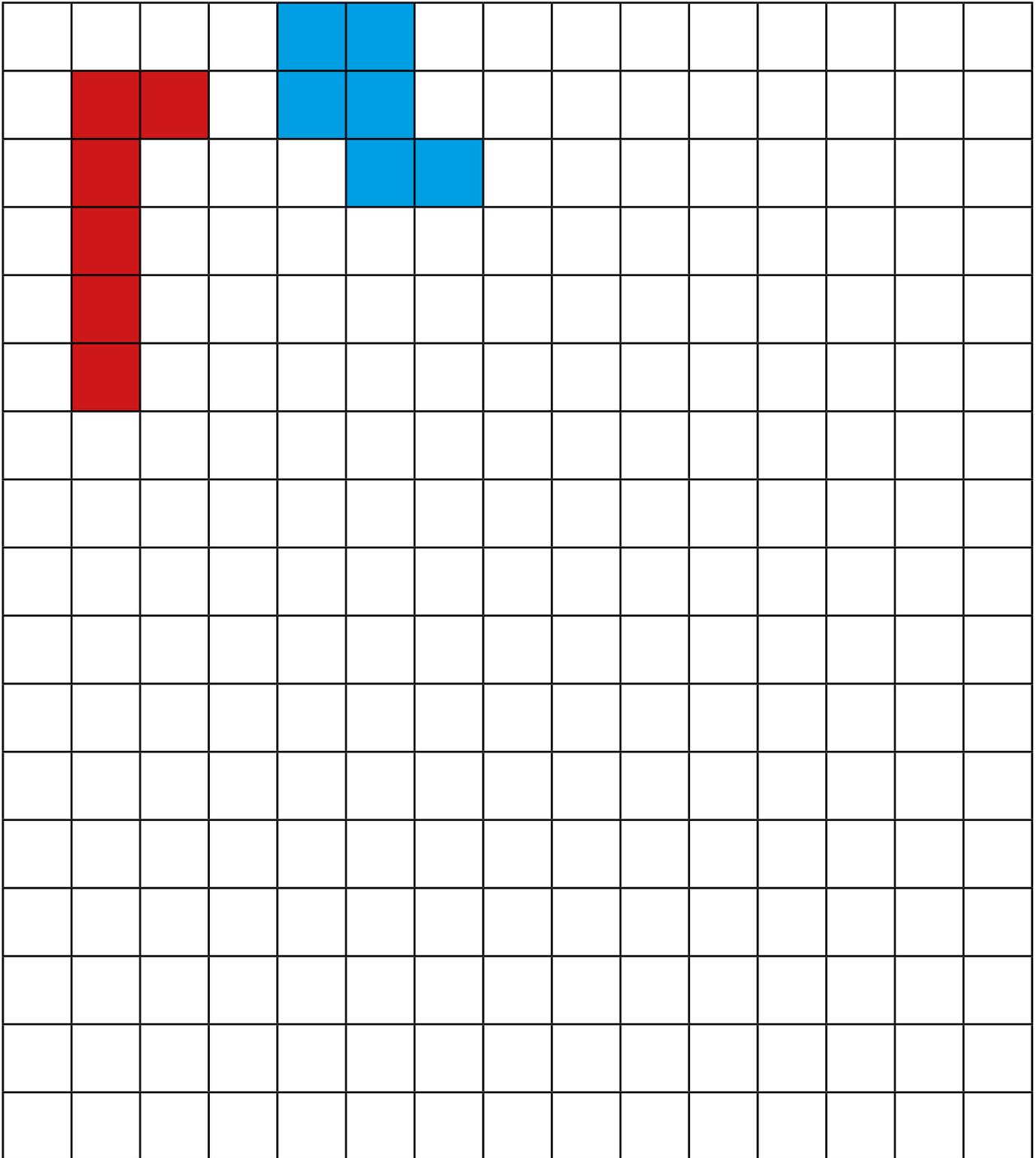
Are there any boxes that could have any of the digits in them?

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



Area Investigation

A Hexomimo is a shape with an area of 6 squares.
The squares can only be joined by sides and not corners.
Here are 2 examples.



Investigate how many different hexominoes you can find.



Word Problem Workout Decimals and Time

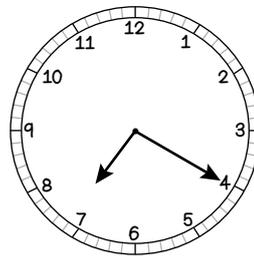
1. Colin has saved £45.65
Coco has saved £36.72
How much more has Colin saved than Coco?

£8.93

2. Coco's sunflower is 1.35m tall.
Colin's sunflower is 1.18m tall.
How much taller is Coco's sunflower than Colin's?

0.17m

3. Colin looks at the clock in the evening.
He thinks the time is twenty past seven.
Coco thinks the time is 19:20
Who is correct?



Both of them.

4. KeePuppI has enough dog biscuits to last 25 days.
The next delivery is in 3 weeks.
Are there enough dog biscuits?

Yes

5. Coco says she slept for 480 minutes last night!
Colin says he slept for seven and a half hours.
Who slept for longer?

Coco - 8 hours

6. Coco sets off for town at half past nine in the morning.
She gets home after her shopping spree at 16:25
For how long was she out?

6 hours 55 minutes

Create your own word problems about time or adding and subtracting decimals.



Matching Buddies Workouts

Match the fraction or mixed number in column A with an operation in column B to make an answer in column C.

A		B		C
1.65	/	+ 1.2	/	= 0.31
2.4	/	- 1.76	/	= 1.8
0.8	/	+ 0.78	/	= 0.58
2.34	/	+ 1.53	/	= 2.43
1.24	/	- 0.6	/	= 2.77
1.67	/	- 0.7	/	= 2
1.5	/	- 1.36	/	= 0.8

24 and 12-hour Time
Fill in the missing buddies.

16:22	/	8:22 p.m.
04:22	/	11:22 a.m.
22:20	/	4:22 p.m.
11:22	/	10:20 p.m.
23:22	/	4:22 a.m.
18:22	/	6:22 p.m.
20:22	/	11:22 p.m.

Match the shapes with the area
Fill in the missing buddies.

	/	7 squares	/	
	/	6 squares	/	
	/	5 squares	/	
	/	8 squares	/	

Create your own Matching Workouts