Colin and Coco's Daily Maths Workout

Workout 6.9 Answers

KeeP-uppI (Term 1 continued)

KPIs for Term 1 (continued)

Multiply numbers up to 4 digits by a 2-digit number choosing efficient methods
Divide numbers up to 4 digits by a two-digit number choosing efficient methods and interpreting the remainders
Describe and plot positions on a 2-D grid as coordinates in the four quadrants
Reflect and translate shapes

Multiplication Workout

Workout A

600 × 20 = 12,000

6,000 × 50 = 300,000

500 × 30 = 15,000

5,000 × 80 = 400,000

40 × 8,000 = 320,000

15 × 4,000 = 60,000

		3	5	1
		×	1	7
	5	9	6	7

	2	3	5	8
		×	3	7
8	7	2	4	6

	1	3	0	9	
		×	2	3	
3	0	1	0	7	

		4	1	6	7
			×	8	3
3	4	5	8	6	1

Division Workout

Workout B

1,600 ÷ 20 = 80

1,320 ÷ 12 = 110

2,800 ÷ 40 = 70

1,080 ÷ 90 = 12

4,500 ÷ 50 = 90

3,000 ÷ 15 = 200

			2	5	4
2	3	5	8	4	2

			4	5	2	1/13
1	3	5	8	7	7	

Express remainders as a fraction where appropriate

				4	9	
8	7	4	2	6	3	

				5	4	3/96
9	6	5	1	8	7	

Coordinates Workout

Workout C

Describe the points using coordinates:

C (- 2 , - 1)

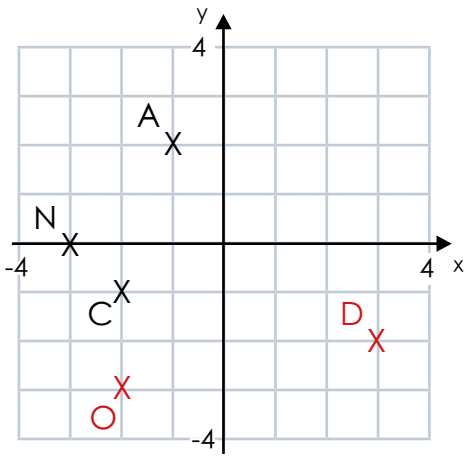
A (- 1 , 2)

N (- 3 , 0)

Plot the points:

D (3 , -2)

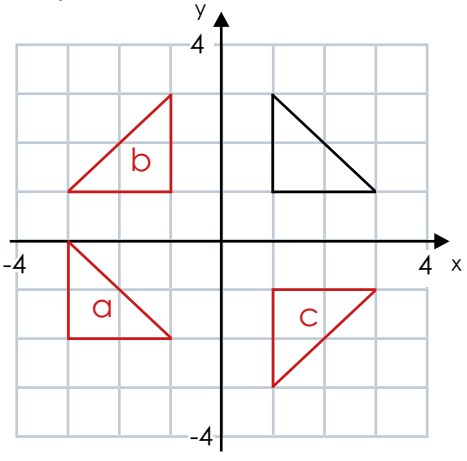
O (- 2 , - 3)



a) Translate the triangle 4 squares left, 3 squares down

b) Reflect the triangle in the y-axis

c) Reflect the triangle in the x-axis



Coordinates Game

Workout D

You need:
Two 1-6 dice.
A blank coordinate axis (see below).

To play:
Player 1 rolls the two dice to create a pair of co-ordinates.
For example, 2 and 4 could give the coordinates:

(2,4) (4,2) (-2,4) (2,-4) (-4,2) (4,-2) (-2,-4)

Player 1 plots the point of their chosen coordinates.

Player 2 rolls the dice to create a pair of coordinates.
Player 2 plots the point of their chosen coordinates.

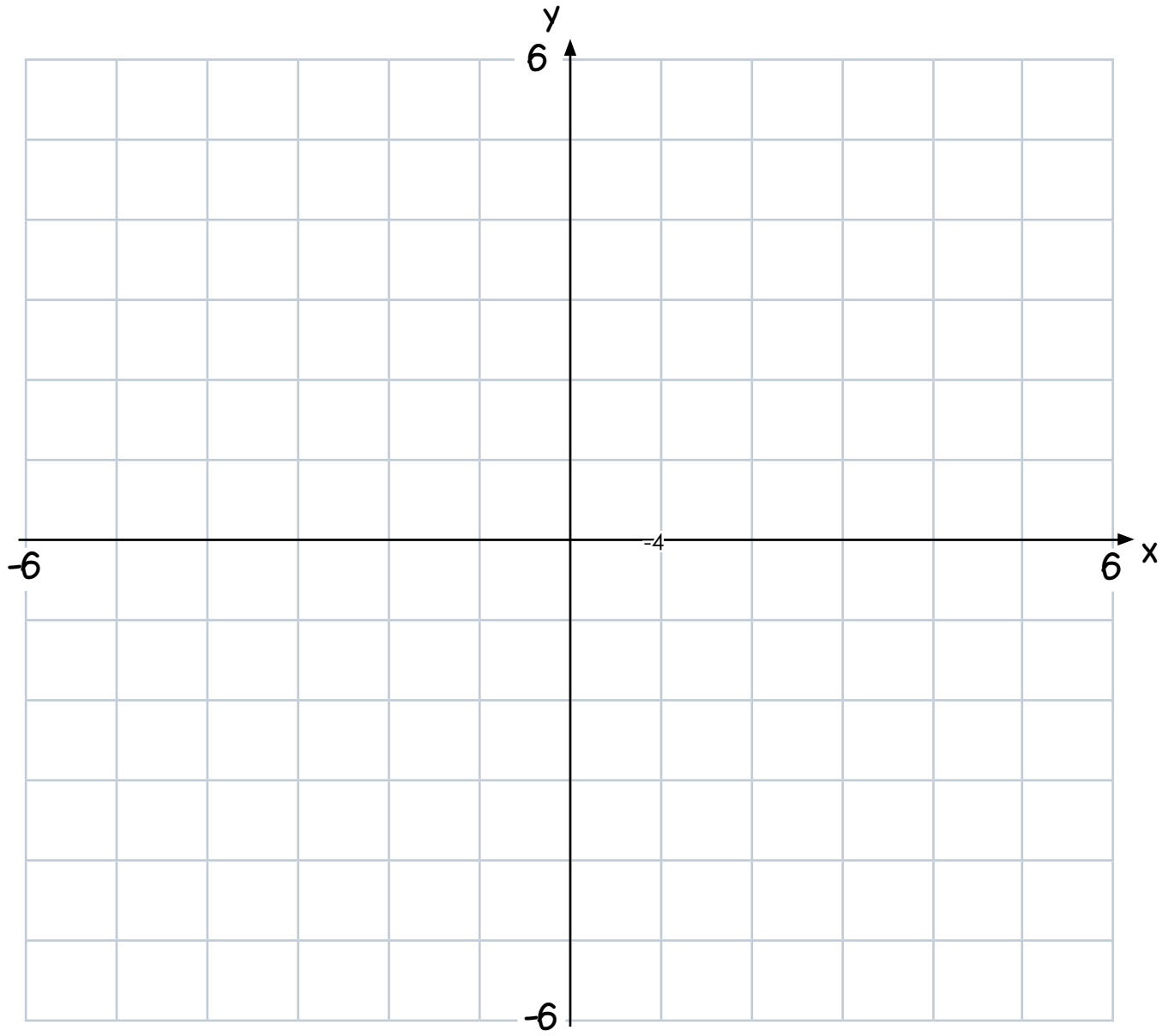
To win:
The winner is the first player to plot 3 points in a straight line.
The line can be horizontal, vertical or diagonal.

What do you notice about the coordinates that lie on a horizontal line?

What do you notice about the coordinates that lie on a vertical line?

What do you notice about the coordinates that lie on a diagonal line?

Coordinate Axis



Missing Number Workout

Workout E

Put different digits in the empty boxes so that the calculation has no remainder

Possible Solution

$$5\,\boxed{8}\overline{)3\,\boxed{7}\,1\,\boxed{2}}$$

Put different digits in the empty boxes so that the calculation is greater than half a million.

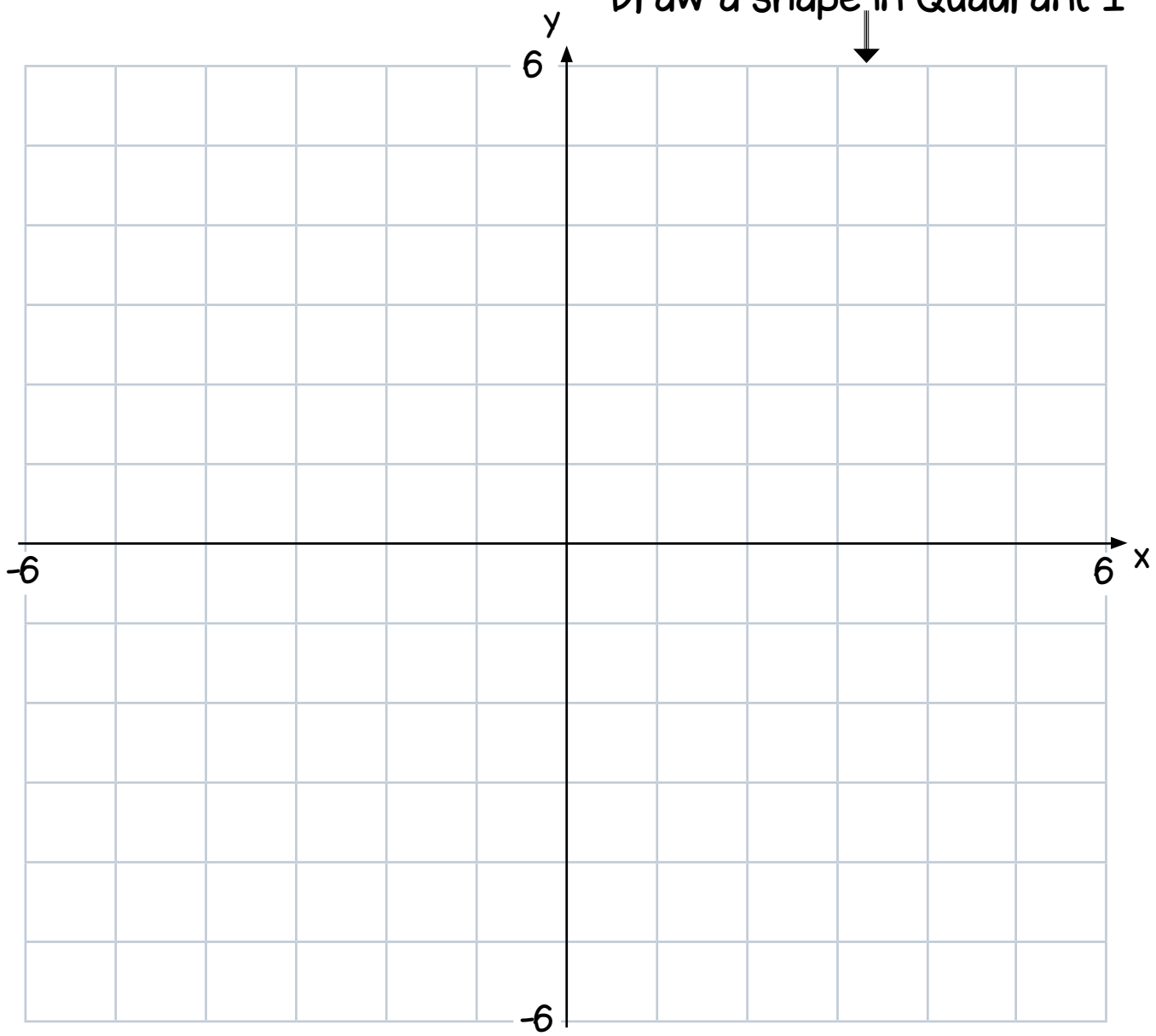
$$\boxed{6}\,7\,\boxed{2}\,4 \times 8\,\boxed{3}$$

How close can you get to half a million?

Workout F

Investigating Translations and Reflections

Draw a shape in Quadrant 1



1) Translate the shape 2 squares down.

2) Translate the shape 2 squares to the left.

3) Reflect all 3 shapes in the y-axis.

4) Reflect all shapes in the x-axis.

Colour in your shape symmetrically.

Word Problem Workout

Workout G

1. Coco types at 47 words per minute.
   The document has 2,538 words.
   Will Colin finsh typing the document in one hour?

Yes. It will take 54 minutes

2. Colin is making necklaces.
   Each necklace used 38 beads.
   Colin has 1,640 beads.
   How many necklaces can he make?

43

3. Coco is feeding her chickens.
   Each chicken eats 25g of seed.
   She has ten 500g bags of seed.
   How many chickens can she feed?

200

4. Colin is sharing £3840 equally between his friends.
   Each person receives £240.
   How many friends does he have?

16

5. Coco runs 465km during the month of March.
   She runs the same amount each day.
   How far does she run each day?

15km

6. Colin is saving to buy a car.
   It costs £8,400
   He can pay for the car in 24 installments.
   How much does he pay in each installment?

£350

Create your own word problems involving the multiplication and division of 4 and 2-digit numbers.

Matching Workout

Workout H

Match the calculations with the correct answer.
Fill in the missing buddies.

3,000 × 70		70,000
3,500 × 20		360,000
80 × 5,000		210,000
700 × 30		36,000
1,600 × 25		21,000
2,400 × 15		400,000
9,000 × 40		40,000

Match the calculations with the correct answer.
Fill in the missing buddies.

3,072 ÷ 48		60
3,888 ÷ 54		62
4,356 ÷ 66		64
6,300 ÷ 90		66
5,208 ÷ 84		68
3,600 ÷ 60		70
5,848 ÷ 86		72

Create your own Matching Workouts