GRAYS TUITION CENTRE – Online Tutoring

WEEK: 15

Week Beginning: (29/06/20)

Subject: MATHS

Year: 6

Lesson Objective:

- Be able to answer harder SATs reasoning questions
- Understand how to approach SATs Coordinate and word problems

Class Worksheets

- SATs word problems

Homework

- Continue to work on SATs reasoning questions

Additional Notes

- All lesson worksheets and **homework for next week (due Week 16)** worksheets can be found below

- Week 14 homework will be marked in lesson hence make sure it is fully complete

Please print 2 a page or open this document during the lesson to save paper!

1 This diagram shows two **identical** rectangles on coordinate axes.
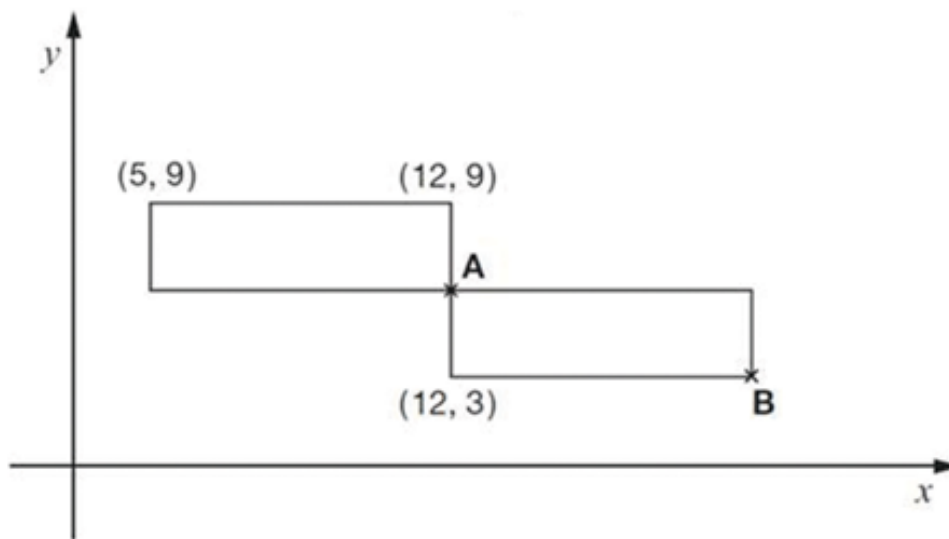
Write the **coordinates** of point **A** and point **B**.

A is (,)

B is (,)

5 Mark with arrows the points **−1.5** and **0.45** on the number line.
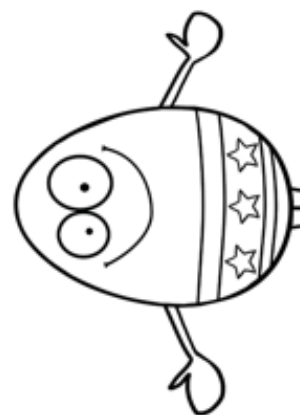
2 *n* stands for a whole number.

2n is greater than 30
5n is less than 100

Write **all** the numbers that *n* stands for.

_____

3 Write the missing fraction.

$$\frac{1}{3} \quad + \quad \frac{1}{4} \quad + \quad \boxed{} \quad = \quad 1$$

2 Jack has two **square-based pyramids** that are the same size.

He sticks the square faces together to make a new 3-D shape.

How many **faces** and how many **edges** does his new 3-D shape have?

| faces | and | edges |

4 This is Kirsty's recipe for breakfast cereal.

50 grams of oats
30 grams of raisins
40 grams of nuts

If she uses 125 grams of oats, how many grams of raisins does she need?

Show your method

g

1 Miss Mills is making jam to sell at the school fair.
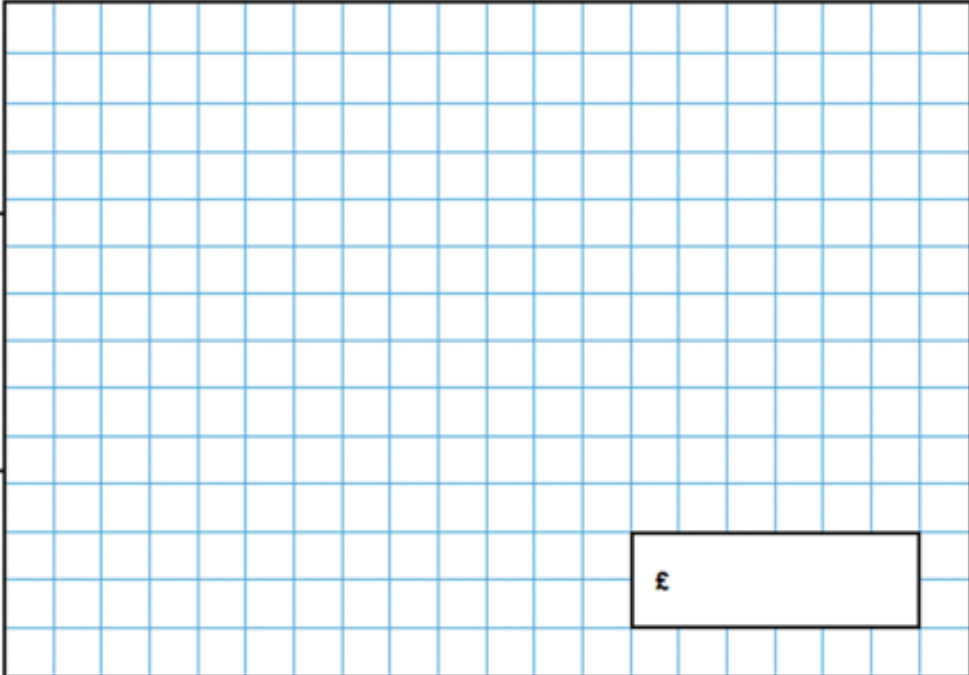
Strawberries cost £7.50 per kg.

Sugar costs 79p per kg.

10 glass jars cost £6.90

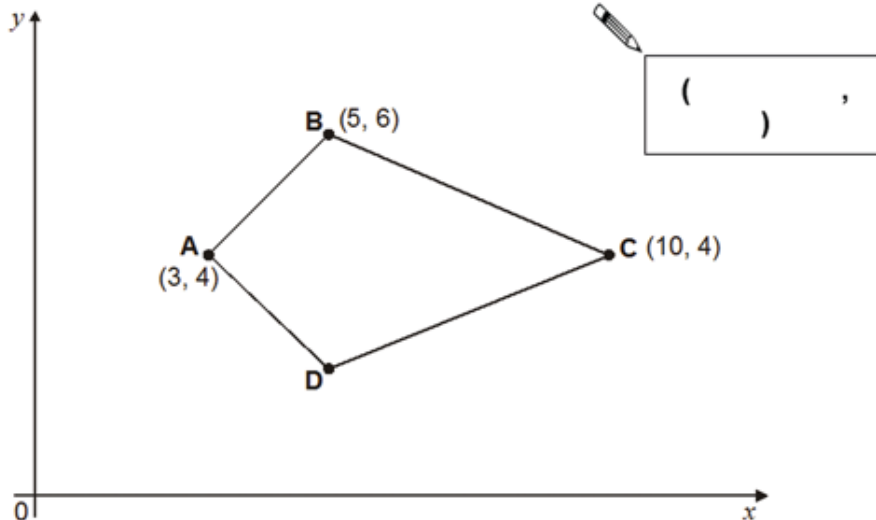She uses 12 kg of strawberries and 10 kg of sugar to make 20 jars full of jam.

Calculate the total cost to make 20 jars full of jam.
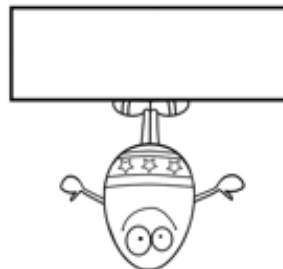
Show your method

£

4 Here is a kite.

(,)

B (5, 6)

A
(3, 4)

C (10, 4)

D

Write the coordinates of point **D**.

2 Write the missing number.

$$12.5 \div \boxed{} = 7.5 \div 1.5$$

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3 $n = 22$

What is $2n + 9$?

$$\boxed{}$$

$2q + 4 = 100$

Work out the value of q.

$$q = \boxed{}$$

1 Write the missing number.

$$70 \div \boxed{} = 3.5$$

4 The diagram shows three **identical** shaded triangles on coordinate axes.

Not to scale
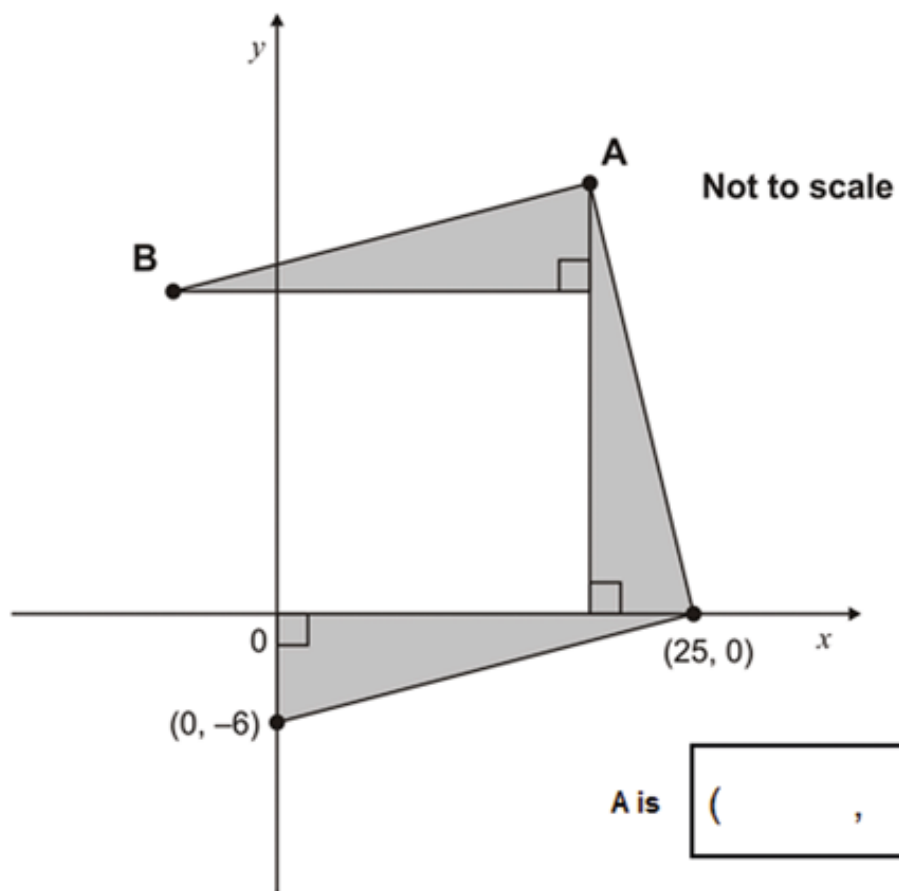
What are the coordinates of A and B?

A is (,)

B is (,)

1 (a) Write numbers in the boxes to make this fraction calculation correct.
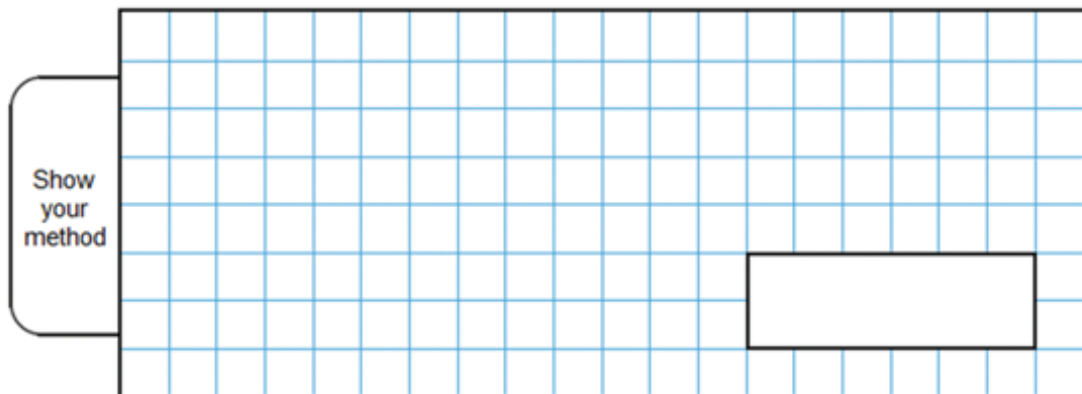
$$\frac{1}{\Box} + \frac{\Box}{5} = \frac{7}{10}$$

(b) Now write two **different** numbers to make the calculation correct.

$$\frac{1}{\Box} + \frac{\Box}{5} = \frac{7}{10}$$

Homework Questions:

2 Lara chooses a number less than 20

She divides it by 2 and then adds 6

She then divides this result by 3

Her answer is 4.5

What was the number she started with?

Show your method

3 Here is part of the bus timetable from Riverdale to Mott Haven.

| Riverdale	10:02	10:12	10:31	10:48
Kingsbridge	10:11	10:21	10:38	10:55
Fordham	10:28	10:38	10:54	11:11
Tremont	10:36	10:44	11:00	11:17
Mott Haven	10:53	11:01	11:17	11:34
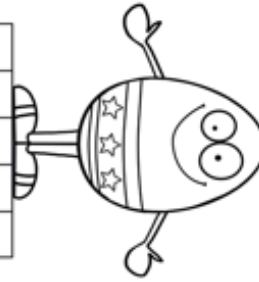
How many minutes does it take the 10:31 bus from Riverdale to reach Mott Haven?

minutes

Mr Evans is at Fordham at 10:30

What is the **earliest** time he can reach Tremont on the bus?

1 This shape is made of wooden centimetre cubes.

3 cm

5 cm

Not actual size

5 cm
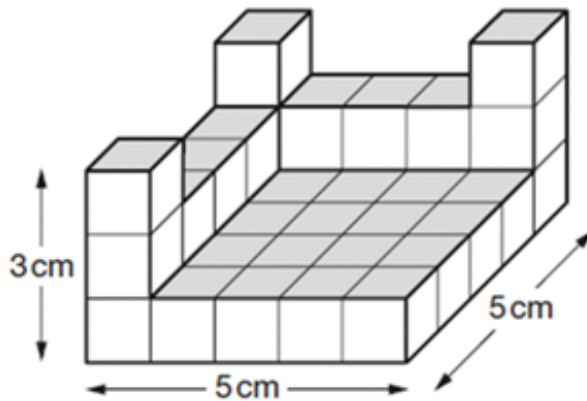
How many **more** centimetre cubes are needed to make it into a solid cuboid 3 cm tall, 5 cm long and 5 cm wide?

2 On Saturday Lara read $\frac{2}{5}$ of her book.
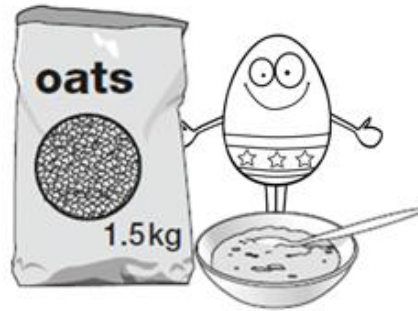
On Sunday she read the **other** 90 pages to finish the book.

How many pages are there in Lara's book?

Show your method

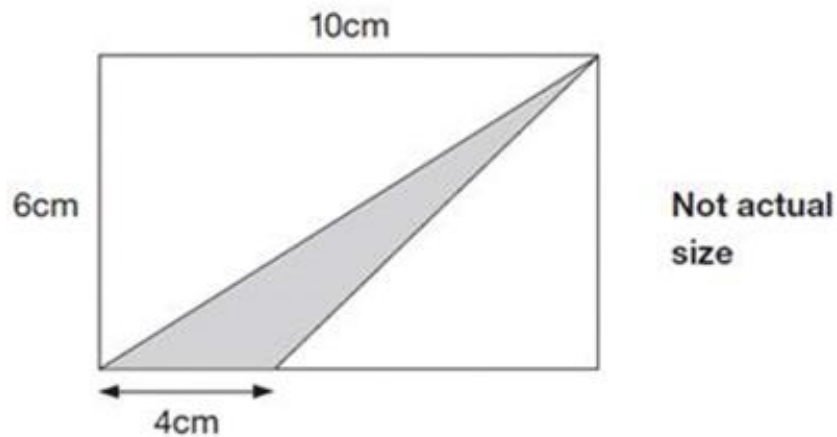**2** On Saturday Lara read $\frac{2}{5}$ of her book.

3 A packet contains 1.5 kg of oats.

Every day Maria uses 50 g of oats to make porridge.

How many days does the packet of oats last?

Show your method

days

2 The diagram shows a shaded triangle inside a rectangle.

10cm

6cm

Not actual size

4cm

What is the area of the shaded triangle?