SATs in Minutes Organiser

Video organiser for 24 SATs questions and variant questions

Reasoning Paper 3, 2017

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24.	6M8b/6R1	Measurement/Ratio &	bit.ly/Q24 P3 2017 SiM		
		Proportion			

Write the missing number to make this division correct.



A group of friends earns £80 by washing cars.

They share the money equally.

They get £16 each.

How many friends are in the group?



1 mark



Click here or use the link to view your video.

bit.ly/Q2_P3_2017_SiM

Chen uses these digit cards.

5

6

9

She makes a 2-digit number and a 1-digit number.

She multiplies them together.

Her answer is a multiple of 10

What could Chen's multiplication be?



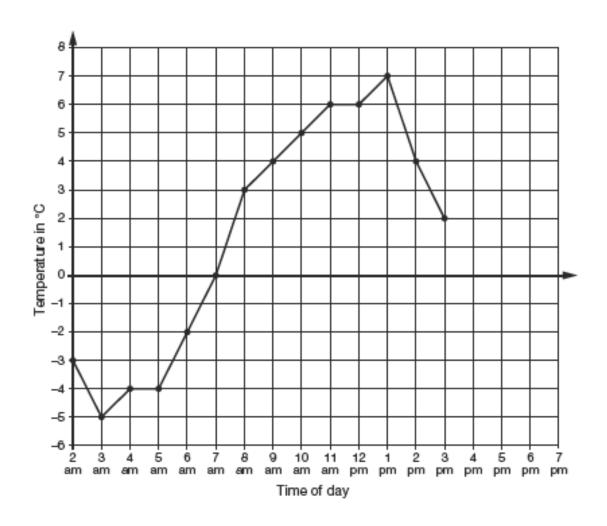
1 mark



Click here or use the link to view your video.

bit.ly/Q3_P3_2017_SiM

This graph shows the temperature in °C from 2 am to 3 pm on a cold day.



How many degrees warmer was it at 3pm than at 3am?



The children at Farmfield School are collecting money for charity.

Their target is to collect £360

So far they have collected £57.73

How much more money do they need to reach their target?





William wants to travel to Paris by train.

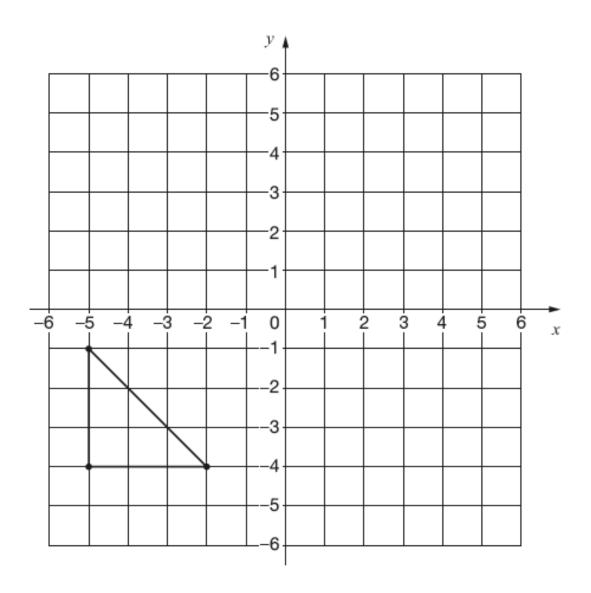
He needs to arrive in Paris by 5:30 pm.

Circle the latest time that William can leave London.

Leaves London	Arrives Paris		
12:01	15:22		
12:25	15:56		
13:31	16:53		
14:01	17:26		
14:31	17:53		
15:31	18:53		
16:01	19:20		



Here is a triangle drawn on a coordinate grid.



1 mark

The triangle is translated 7 right and 5 up.

Draw the triangle in its new position.



Write three factors of 30 that are not factors of 15





Here is the morning timetable for Chen's class this week.

Time	Mon	Tue	Wed	Thu	Fri
9:00 am-10:30 am	Maths	English	Maths	English	Maths
10:30am-11:00am	Break	Break	Break	Break	Break
11:00 am-12:00 pm	English	Maths	Science	Maths	English

What is the total number of hours for English on this timetable?





A bottle contains 568 millilitres of milk.

Jack pours out half a litre.



How much milk is left?



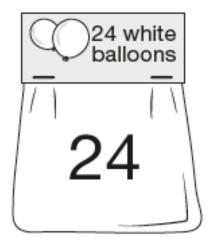


A bicycle wheel has a diameter of 64 cm.

What is the radius of the bicycle wheel?

cm





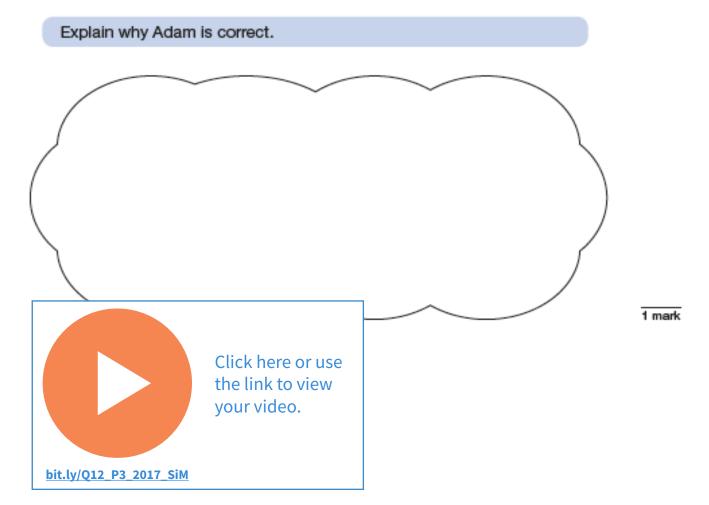


Adam buys 6 bags of white balloons.

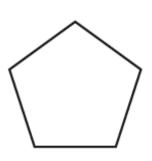
Chen buys 3 bags of red balloons.

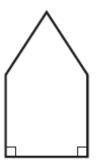
Adam says,

'I have four times as many balloons as Chen.'



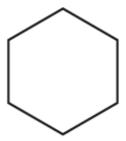
Circle the pentagon with exactly four acute angles.











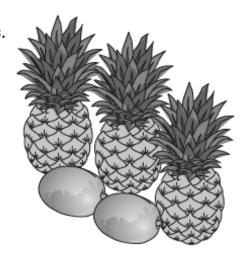
1 mark



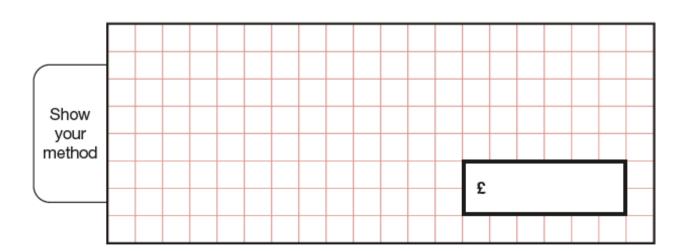
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3 pineapples cost the same as 2 mangoes.

One mango costs £1.35



How much does one pineapple cost?



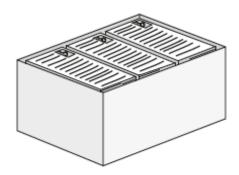


Look at the letters below.

Circle the letter below that has both parallel and perpendicular lines.

ACELZ



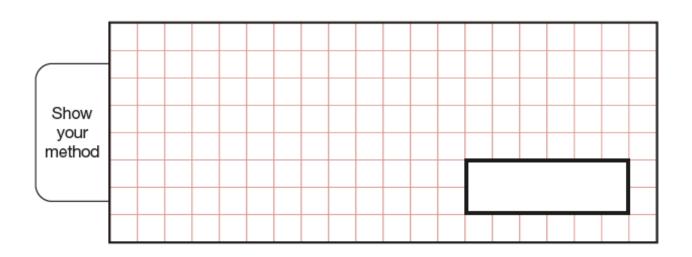


There are 2,400 leaflets in a box.

William and Ally take 450 leaflets each.

Adam and Chen share the rest of the leaflets equally.

How many leaflets does Adam get?





In each box, circle the number that is greater.

1.2

1.3

 $1\frac{5}{100}$

1.4

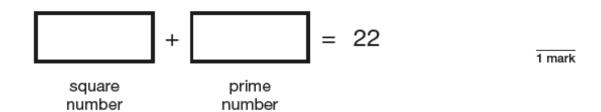


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bit.ly/Q17_P3_2017_SiM

A square number and a prime number have a total of 22

What are the two numbers?





Dev thinks of a whole number.

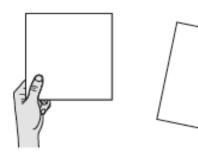
He multiplies it by 4

He rounds his answer to the nearest 10

The result is 50

Write all the possible numbers that Dev could have started with.

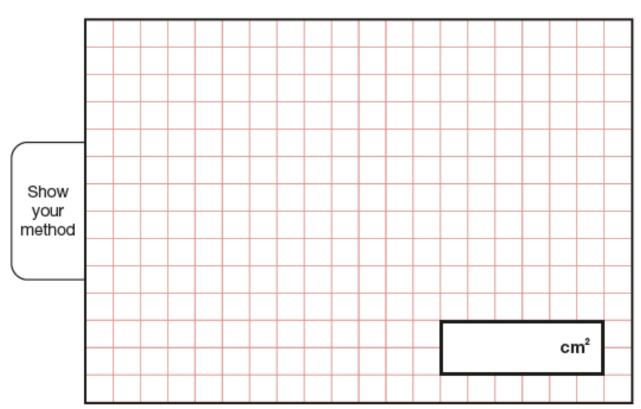




A square tile measures 20 cm by 20 cm.

A rectangular tile is 3 cm longer and 2 cm narrower than the square tile.

What is the difference in area between the two tiles?





The numbers in this sequence increase by the same amount each time.

Write the missing numbers.



1

 $1\frac{5}{8}$

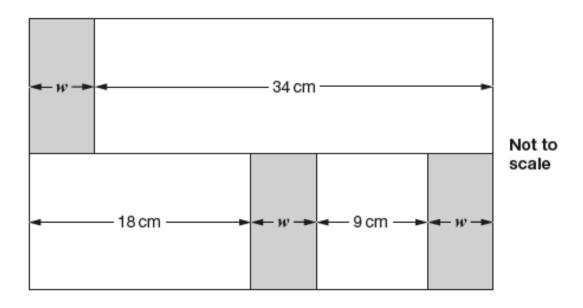
 $2\frac{1}{4}$



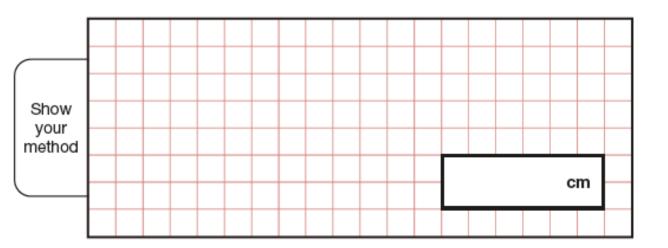
1 mark



In this diagram, the shaded rectangles are all of equal width (w).



Calculate the width (w) of one shaded rectangle.





Here is a pattern of number pairs.

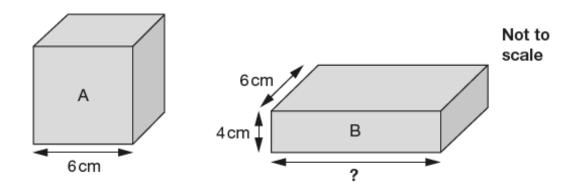
а	b
1	9
2	19
3	29
4	39

Complete the rule for the number pattern.

$$b = \boxed{ \times a - }$$



Cube A and cuboid B have the same volume.



Calculate the missing length on cuboid B.

