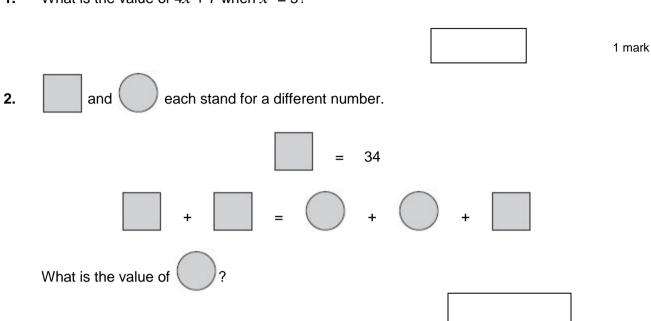
Algebra KS2 SATS Standard Worksheet

1.	What is	tho	Aulua	of 11	· т 7	whon	v = 52
Ί.	vvnatis	tne '	value	OI 4 <i>A</i>	+ /	wnen.	x = 5?



3. *n* stands for a number.

Complete this table of values.

n	5 n – 2
20	
	38

2 marks

1 mark

4. The rule for this sequence of numbers is 'add 3 each time'.

1 4 7 10 13 16 ...

The sequence continues in the same way.

Mary says,

'No matter how far you go there will never be a multiple of 3 in the sequence'.

Is she correct?

Circle Yes or No.



Explain how you know.

shape-number by 4, then adding 3".

Work out the **number** of sticks for the shape that has shape-number 10.



1 mark

Ann uses **59 sticks** to make another **L** shape in this pattern.

What is its shape-number?

5.

6.



2 marks

Here is Ann's rule again:

"I find the number of sticks for a shape by first multiplying the shape-number by 4, then adding 3".

Write a formula to work out the number of sticks for any **L** shape.

Use **S** for the number of **sticks** and **N** for the **shape-number**.

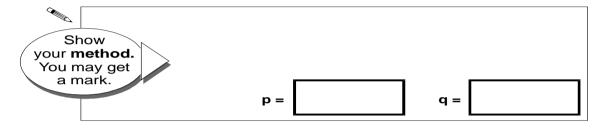
2 marks

7. **p** and **q** each stand for whole numbers.

$$p + q = 1000$$

p is 150 greater than q.

Calculate the numbers **p** and **q**.

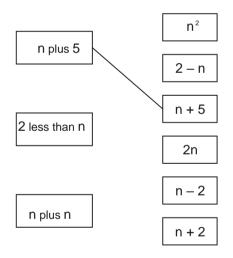


2 marks

8. \bigcap stands for number.

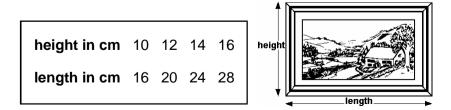
Match the equivalent expressions.

One has been done for you.



2 marks

9. Here are some picture frame sizes.



For each frame, the length is twice the height, subtract 4.

What is the **length** of a frame which has a **height** of **36cm**?

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	ст	2 marks	
For each frame, the length (L) is twice	the height (H) , subtract	4.	
Write this in symbols.			
	L =		2 marks
A new frame has its length twice its he It is made with 126cm of wood.	eight.		
What is the length of this frame?			
		cm	

2 marks