

## Sidcot School Mathematics Entry Test (NC Years 7-9)

Name:	(please print)	
Age:	(years)	

Time Allowed: 1 Hour

## **Instructions to Candidates**

You may **<u>not</u>** use a calculator

Write your name in the space provided at the top of this page

Answer all questions

Show all your working. In many questions, marks will be given for the correct method, even if your answer is incorrect

## **Equipment Needed**

Pen or pencil

Signed: ..... Date:....

I confirm that the answers on this test paper are all my own work and were completed under examination conditions.

65 + 327	2.	1037 - 672
Answer		Answer
352 × 7	4.	13512 ÷ 6
Answer		Answer
3291 × 34	6.	9804 ÷ 38
		Answer

$\frac{1}{2} + \frac{3}{4}$	8.	9.2 - 0.56
Answer		Answer
12 % of 320	10.	(a) <b>2</b> <sup>-2</sup> =
		(b) 7° =
		(c) <b>9</b> <sup>1/2</sup> =
Answer		
6 + 5 × 3 =	12.	23 - 37 =
Answer		Answer
Write down the next two n	umbers:	
3, 7, 11, 15, 19,	,	
1, 2, 4, 8, 16,, _		
2.4, 2.5, 2.6, 2.7, 2.8, _	,	_
1, 4, 9, 16, 25,,		
1, 1, 2, 3, 5, 8,,		
1, 3, 6, 10, 15,,		

14.	Simplify		
(a)	x + x + x + x		
(b)	3x + 8y + 5x - 2y		
(c)	4(x+2) + 3(x - 8)		
(d)	$x^5 \times x^4$		
15.	Factorise fully		
(a)	6x + 14xy		
(b)	$x^2$ + 7 x + 12		
(c)	<i>a</i> <sup>2</sup> - 9		
16.	Solve		
(a)	x + 7 = 23 (b)	4x - 19 = 13	
	 Answer	Answer	
17.	Answer Given $v = u + at$ find $v$ when:	Answer	
		Answer	_
(a)	Given $v = u + at$ find $v$ when:		
(a) (b)	Given $v = u + at$ find $v$ when: u = 3, $a = 10$ , $t = 2$	v =	

19. Calculate the lettered angles (diagrams **not** drawn accurately):



21. Calculate the **volume** and **total surface area** of the shape drawn below. Show all your working.



Anowora	Volume $ m^3$	Total surface area = m <sup>2</sup>
Answers:	volume = $m^{\circ}$	i otal surface area = m <sup>2</sup>



## GLOSSARY

Calculators NOT permitted

Show all your working

Answer

Write down the next two numbers

Simplify

Factorise fully

Solve

Find

Convert

Calculate

Angles

Area

Circumference

Circle

Total surface area

Shape