

## Topic Test 1 (20 minutes)

Basic algebra - Foundation

1	Work out the value of	35 – 3 <b>x</b> 9		[1 mark]
		Answer		_
2	Insert brackets to make th	e calculation correct	100 – 4 + 3² = 51	[1 mark]
		Answer		_

3 Put these in order of size, starting with the smallest.

You **must** show your working.

[3 marks]

 $3 + 6^2 - 10$   $20 - (2 + 3)^2$   $15 - 54 \div 3^3$ 

4 (a)	Simplify	a + a + a + a	+a+a		[1 mark]
			Answer		
4 (b)	Simplify	$7 \times b \times c$			[1 mark]
			Answer		
4 (c)	Simplify	12  imes d  imes d  imes	z d		[1 mark]
			Answer		
4 (d)	Write as a s	ingle fraction i	n its simplest form	$(5 \times m \times m) \div (8 \times n)$	[1 mark]
			Answer		
4 (e)	Write as a s	ingle fraction i	n its simplest form	$(4 \times n \times n \times 5) \div (2 \times m \times 7)$	[2 marks]
			Answer		

5	Circle the e	[1 mark]				
		20 > <i>x</i>	<i>x</i> + 20	20 <i>x</i>	<i>x</i> – 20	
6	1 kilogram	of bananas cos	sts 87p			
	Write dowr	[1 mark]				
			Answer			pence
7	Which of th Circle all th	iese can be wri ie possible ans	tten as 16 <i>a²b</i> ? wers.			[2 marks]
		$2 \times 8 \times$	$a \times a \times b$	$2 \times a \times a^{-1}$	$+8 \times b$	
		$32 \times a \times a \times$	$a \div (2 \times a \times b)$	$32 \times a \times a \times a$	$\div$ (2 × a) × b	
8	Carys has She is now Her brothe	just had a birth $A$ years old.	day. ears vounger.			
	Her sister,	Kiah, is twice a	is old as Joshua.			
	Write dowr	[3 marks]				
			Answer			