

St Anselm's College Maths Sample Paper 2

45 mins

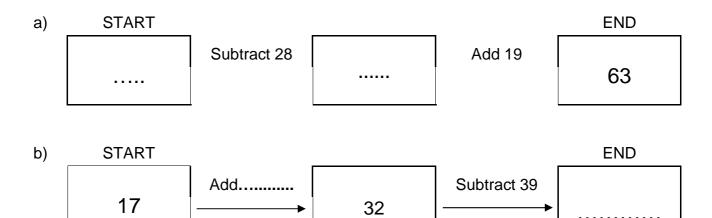
No Calculator Allowed

1)	The speed of speed of ligh	_			,000) mi	iles	per	sec	con	d. V	Vrit	te th	ie
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2)	The speed of metres per se	_						•				-	-	458
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3)	Look at the b	ous ti	meta	able	be]	low	•							
	10, 10A New E					ark I	Hosp	ital				A	VC BUS)N ses
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5	Birkenhead North Merseyrail station Claughton Village	→ 065			0826 0831	0856 0901	0926 0931	0956 1001	these	26 31	56 01		1526 1531	1556
6	Bidston Road, Gerald Road	070			0836	0906	0936	1006	minutes past	36	06	until	1536	1606
7	Woodchurch Road, Holm Lane Arrowe Park Hospital	070 H 072			0839 0851	0909 0921	¥	1009	each	V	09 21		*	1609 1621
	Upton Village Ford Road	<u>⊞</u> √/2	. 0,51	0021	0031	0/21	Ĭ	1027	hour	Ĵ	27		Ĭ	1627
	Upton railway station						Į	1030		Į	30		Į	1630
2	a) I need to car arrive at Up							•						
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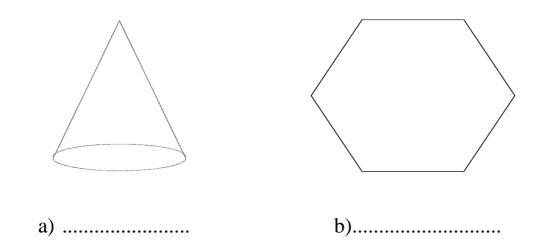
4)	I	buy 22 items which cost £7.05 each.
	a)	What is the total cost?
	b)	If you worked out the answer to part (a) on a calculator, what would the display show?
5)		live 3.2 km from St Anselm's College. How far is this in metres?
	,	
	b)	One kilometre is five eighths of a mile. How many miles do I live from St Anselm's?
6)		start watching a film at 6:55pm and turn the television of the first of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the television of the start watching a film at 6:55pm and turn the start watching a film at 6:55pm and turn the start watching at 6:55pm and turn the start watching a film at 6:55pm a
	a)	For how long was I watching television?

	b) In total, a fifth of the time I spent watching television advertisements were being shown. What was the total time of all the advertisements?
7)	Solve the following:
	a) I think of a number, divide it by 7 and subtract 3. The result is 6. What was the number I first thought of?
	b) There is a number, x. When I add 7 to x then multiply the answer by 8, the overall result is the same as just multiplying x by 22. What is x?
8)	Write the next two numbers for each of the following sequences.
	a) 3 10 17 24 31
	b) 1 3 9 27 81
	c) 3 4 6 10 18
	d) 1 1 2 3 5 8

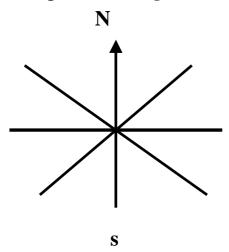
9) Complete the spaces shown by dotted lines below.



10) Write the name of the following shapes underneath them.



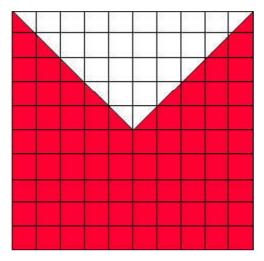
11) Complete the diagram to show the 8 points of the compass.

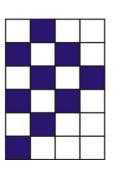


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7						
6 + 5 +						
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,	fickets for the zoo cost £9.30 for adults and £6.40 for hildren.
a) [How much would it cost for 6 adults to go to the zoo?
b)	How much would it cost for 3 adults and 4 children?
	What is the maximum number of people that can go to the zoo for £30?

14) Look at the grids below.





a) Which grid is more than 50% shaded, left or right?
b) What percentage of the large grid on the left is shaded?
c) What fraction of the small grid on the right is shaded? Give your answer in its simplest form.
15) In a tin of Roses, 8% are "Purple Ones" (hazelnut &

caramel). If the tin has a total of 250 chocolates, how many are **not** Purple Ones?

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6) Round each of the following numbers to the accuracy given in brackets.
a) 29.8536 (nearest whole number)
b) 170490 (nearest thousand)
c) 45.1925487 (nearest tenth)
7) Write the following numbers in order of size, starting with the smallest.
0.56 0.5 0.051 0.507 0.308
8) If two fair dice are rolled and the two scores added, which of the following outcomes is most likely? Circle your answer.
a) A score of 7
b) A score of more than 10
c) A score that is an even number.
d) A score of 1.

19) I have a bag containing red, blue and white counter is chosen at random from the bag. The white counters in the bag and the probability white counter is ½. The bag contains 14 red counter many blue counters are there in the bag?	ere are 32 of choosing a
•••••	
20) Which of the following distances is the most of a man? Circle your answer.	t likely height
a) 120 cm	
b) 150 mm	
c) 1.8 m	
d) 112 inches	
21) A calculator normally costs £3.80. It is offered 25% off. What is the sale price?	ed in a sale at
	••••••
	•••••
22) Look at the list of numbers below.	
6 12 15 49 52 53 10	59
a) Which of the numbers have an odd number	of factors?
	•••••

b)	Give another exar factors.	nple of a number v	with an odd number of
		• • • • • • • • • • • • • • • • • • • •	•••••
c)	These numbers h	ave a special name	e. What is it?
d)	Which of the num	bers is a prime nu	mber?
23) I	Number $A = 7 \times Nu$	umber B and Num	$A = 3 \times Number C$
a)	What fraction of N	Number A is Number	er B?
b)	How many times b	oigger than Number	r C is Number A?
c)	What fraction of N	Number B is Number	er C?
		• • • • • • • • • • • • • • • • • • • •	
d)	Give three possible	e values of the num	nbers.
	A =	$\mathbf{B} =$	C =

24)	In November 2006 Becky is two and a half times Anna's age and Mary is twice Anna's age.
	In November 2009 Anna is half of Becky's age. Mary is six years older than Anna.
	How old are the three girls in November 2009?