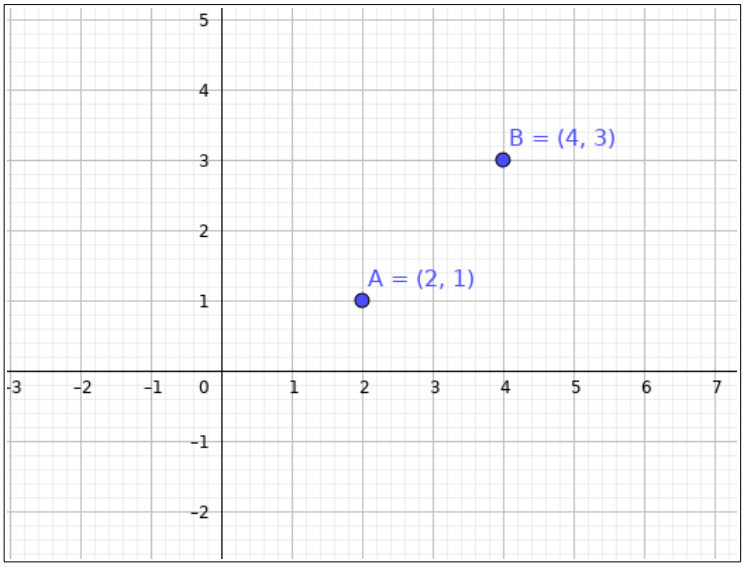
S S L C Examination March 2022
Maths Answer Key

1	3,7,11,... d=4
2	<A-180-110=70^0
3	$\frac{3}{10}$
4	4
5	$\frac{90}{360} = \frac{r}{12}$, r=3
6	P(1)=0
7	Tan $30^0 = \frac{1}{\sqrt{3}}$
8	r= $\frac{A}{S}$ 2= $\frac{A}{12}$,Area =24
9	$10\sqrt{3}$
10	y=1
11	(a) x_{20} =62 (b) x_n = **3n+2**
12	(a) 25 (b) 1/2
13	(a) 3 (b) $3\sqrt{3}$
14	x(x+1)
15	32,35,38,**42**,43,44,45 Median **42**
16	Sn= n^2+n first term =1+1 =2 S_{10} =100+10=110
17	PA*PB =PC^2 PC^2 = 9*4=36 PC =$\sqrt{36}$**=6**
18	{ 1+ $\frac{2}{3}$ (7-1), 2+ $\frac{2}{3}$ (5-2}

	{ 1+2*2,2+2} { 5,4}
19	Constructions central angles 100^0 ,120^0
20	(a) x(x+4) =77 7*11=77 x^2+4x =77 x^2+4x+2^2=77+2^2 $(x+2)^2$= 81 x+2=9 x=9-2=7 **7,11**
21	Construction
22	r=9 h=12 l=√ 81+144=√225=15 TSA=∏rl+∏r^2 = ∏*9*15+∏*9*9= 81∏+135∏ =216∏ cm^2
23	(a) C(10,8) (b) (6,5)
24	(a) 20 (b) 3/10 (c) 4/20
25	(a) Sin 40=h/10 0.64=h/10 h=6.4cm (b) Area= bh= 6.4*20=128sq cm
26	(a) PC = 4 (b) Constructions
27	<ADC= 90 AB= 10 BC=10√3 AD=10√2 DC=10√2 Perimeter = AB+BC+CD+AD= **10+10√3+10√2+10√2**
28	(a) B(7,1),D(2,5) (b) l=5 ,b=4 AC=√41

29	(a) V=288∏ c cm (b) h= 24cm
30	X+5 x(x+5) $x^2+5x=104$ 8,13
31	P(1) = 3 (x-1)(x-2) x=2,1
32	**Total 45** 23rd household 160-162 . 20th 162-164 21st 164-166 22nd 166-168 23rd 20th = 161 23rd =**167**
33	**(a) S_{15}= 510** **(b) x_{16}- x_1 =15d=15*4=60** **(c) 900**
34	**<ACB=70** **constructions** **central angle 130,120**
35	 (b)**Slope 2/2=1** (c) **End point of diameter (5,2)**
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