Schedule for CAT Year 9 Exam 2020 **AT** = 40% - 60% **ABOVE** = 61% - 84% **BEYOND** = +85%			
Number			
Total	AT(3/4points)	ABOVE(5/6points)	BEYOND(7/8points)
Q1			
(a)	90x7=630. He can make 630 naan bread in 1 week.		
(b)	Amount paid per day = 135 /3 = $45 per day		
(c)		Amount paid per day is $45 divided by 4 (4pm to 8pm) Hourly rate is 11.25 Now working from noon to 8 pm = 8 hours 11.25 x 8 =$90 3 days of work per week = 90x 3 days x 2 weeks = $540	
(d)		Amount of time required is ⅖ x 55 =22 minutes It takes 22 minutes to cook and prepare Papadum	V n q

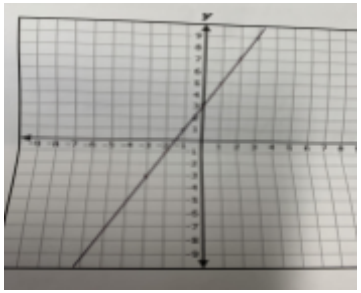
(e)		Rogan Josh : Butter Chicken 4:5 Number of butter chicken 5/(4+5) x 450 Or 5/9 x 450=250butter chicken dishes were sold	
(f)		Total amount of chicken packets = 500g x6 =3000g Number of required servings =3000/125g =24 He can make 24 serving of butter chicken	
Q2			
(a)	35/100= 7/20 (Needs to be fully simplified for A4 or A3 with 35/100)		
(b)	35/100 x$135 =$47.25		
(c)		Heena saves $47.25 To save $1500, she will take 1500/47.25= 31.746 = 32 weeks (needs to round up to 32 weeks for full marks)	
(d)			Mount of interest per year 2% =2/100 x$800 =$16 per year For two years 16x2 =32 Total value of savings accounts = 800+32 =$832 (must be shown)
Q3	At	Above	Beyond

(a)	0.96kg,1.01kg.1.06kg,1.07kg, 1.1kg,1.14kg		
(b)	Total weight 6.34kg correctly rounded = 6 kg		
Q4			
(a)			
(i)	-40		
(ii)	6		
(iii)	33+(-10)=23		
(iv)		-27	
(v)		10+20+4 =34	
(B)		Final required temperature $-16c^0 + 4c^0 = -12c^0$	
Q5			
(a)		Total required cups of water = 1 ½ x 3 = 3/2x3=9/2=4.5	
(b)		Total 20 /1 ½ = 20/ 3/2 = 13:33 = round down 13 naan bread	
(c)			If 1 cup flour =0.12 kg , 31/2 cups(Given in the recipe) = 0.12x3.5= 0.42 kg Therefore one Naan bread needs 0.42 kg of flour 50 naan bread will require 0.42x50 = 21 kg of flour therefor e 20 kg flour will not be enough for 50 naan breads 9 Correct units and rounding required for full marks)

Q6			
			1.Contribution from **Foursquare** = 8/100 x$6000 =$480 2.Contribution from **Home and School Association** 1/12x $6000=$500 3.Contribution from **Lion Foundation** $1100(total 2080) Therefore amount required to fund raise = $6000-(480+500+1100)= $3920 $6000-2080 Profit made from each meal $8=$2(Cost by Ajya) =$6 Number of meals required $3920/$6 = 653.33 that means 654 meals Team needs to sell 654 meals to raise $6000 for the cost of the trip.
Algebra and Patterns			
Q1			
(a)	5x +6y		
(b)	22w		
(c)	5w-7z		
(d)	w^4		
(e)		$x^{7-5}=x^2$	
(f)		$15x^2$	
(g)		$24y^8$	

Q2			
(a)		2(3)+3(7) = 6+21 =27	
(b)		$\pi r^2=\pi(6^2)$ =113.0973 or 113.10	
Q3			
(a)	5x-10		
(b)	$2y^2+6y$		
(c)		18x-12+8x-18 =26x-30	
Q4			
(a)	36/4=9 x=9		
(b)		5x + 2 = 32(32-2) 5x=30 (30/5) x=6	
(c)		2(y – 6) = 18 2y =18+12=30 y =30/2=15	
(d)		4x + 3 = x – 9 3x=-12 x=-12/3 =-4	
Q5			

<table>
<tr><td>(a)</td><td></td><td></td><td>C = cost and d = day
c=45.99d+65</td></tr>
<tr><td>(b)</td><td></td><td>45.99(5)+65= $294.95</td><td></td></tr>
<tr><td>(c)</td><td></td><td></td><td>45.99d+65= 478.91
45.99d= 478.91-65 (413.91)
d=413.91/45.99=9
Susan hired the car for 9 days</td></tr>
<tr><td>Q6</td><td></td><td></td><td></td></tr>
<tr><td>(a)</td><td>$6x + 48= 6(x+8)$</td><td></td><td></td></tr>
<tr><td>(b)</td><td>$3y^3 – 48y = \quad 3y(y^2-16)$</td><td></td><td></td></tr>
<tr><td>(c)</td><td>$5x^6y – 65x^3y^2 =$
$5x^3y(x^3-13y)$</td><td></td><td></td></tr>
<tr><td>Q7</td><td></td><td></td><td></td></tr>
<tr><td>(a)</td><td>  </td><td></td><td></td></tr>
<tr><td>(b)</td><td><table><tr><td>PN</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>N</td><td>3</td><td>6</td><td>9</td><td>12</td><td>15</td><td>18</td></tr></table></td><td></td><td></td></tr>
<tr><td>(c)</td><td></td><td>T=3p</td><td></td></tr>
<tr><td>(d)</td><td></td><td>t=3(20)=60.</td><td></td></tr>
<tr><td>(e)</td><td></td><td>111=3p
p=37</td><td></td></tr>
</table>

		Pattern no 37	
Q8			
(a)			
(b)		y=2x+3	
Q9			
(a)			y= 2x-50
(b)		y=2x-50 = 2(30)-50 =10 Profit made was $10	

Strand	AT (4)	ABOVE (6)	BEYOND (8)	Total
Number	9 x 4 = **36**	10 x 6 = **60**	3 x 8 = **24**	**120**
Algebra	13 x 4 = **52**	15 x 6 = **90**	3 x 8 = **24**	**166**

Grand Total	88	150	48	286

Percentage grade boundaries for overall grade:

Percentage	*Points*
AT = 40% - 60%	114-171
ABOVE = 61% - 84%	172-240
BEYOND = +85% ≥	241 -

Number AT 48 - 72	ABOVE 73 - 100	BEYOND 101+
Algebra AT 66 - 99	ABOVE 100 - 139	BEYOND 140+