Schedule for common paper Year 9 Exam 2019
Number

| Total | AT | ABOVE | BEYOND |  |
| :--- | :--- | :--- | :--- | :--- |
| Q1 |  |  |  |  |
| (i) | -48 |  |  |  |
| (ii) | 18 |  |  |  |
| Deleted |  |  |  |  |
| (iii) | -16 | -29 | 51 |  |
| (iv) |  |  |  |  |
| (v) |  |  |  |  |
| (a) | 18 degrees |  |  |  |
| (b) | 212 students | 60 mins |  |  |
| (c) | 10.5 hrs a day |  |  |  |
| (d) |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |


| (e) |  | $\frac{2}{5} \times 10.5=4.2 \mathrm{hrs}$ | $4.2 \times 60=252$ mins |  |
| :---: | :---: | :---: | :---: | :---: |
| (f) | $\frac{4}{12}$ | $\frac{4}{12} \times 1296$ | 432 |  |
| (g) |  | 702 people | Any correct whole number of buses Eg 15 forty eight seater or $14 \times 48$ and 1X42 or 12X48 and 3X42 |  |
| Q3 |  |  |  |  |
| (a) | 0.125 |  |  |  |
| (b) | 80 |  |  |  |
| (c) | 82 |  |  |  |
| (d) |  | \$28529.15 |  |  |
| (e) | Students raise \$19200 | College saves \$375000 Grant equals $\$ 9600$ | ```School savings \(\frac{1}{6} \times 750,000 \times 3=\$ 375,000\) MOE : \(\$ 1.2\) million Students: \(640 \times 30=\$ 19,200\) Lotteries: \(0.5 \times 19,200=\$ 9,600\) Total 375,000+1,200,000+19,200+9,600 = \$1,603, 800 income. No, the College will not have enough money to cover \(\$ 1.65\) million as they will only have \(\$ 1.6038\) million. Must show all working that is set out in a logical manner``` |  |


| Q4 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| (a) | $0.90,0.204,0.23,0.256$, |  |  |  |
|  | $0.301,0.31$ |  |  |  | (b) $^{2}$ Q5


| (e) |  | 24 , must have used the equation to work this out. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Q2 |  |  |  |  |
| (a) | Points correctly plotted and joined using a ruler. |  |  |  |
| Q3 |  |  |  |  |
| (a) |  | \$25 |  |  |
| (b) |  | Cost $\$ 20$ for the supplies to make the soap. |  |  |
| (c) |  | $P=1.5 N-20 \text { or } P=\frac{3}{2} x-20$ |  |  |
| (d) | One correct point | Three correct point Eg Both lines start below the x axis |  |  |
| (e) |  |  | The Cinnamon line starts lower at -30 compared to Lavender line that starts at -20. <br> Same profit when 20 bars of soap are sold. <br> The Lavender gradient of 1.5 is less than the Cinnamon gradient of 2 , this makes the Cinnamon line steeper. Cinnamon makes more profit per soap. |  |


|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Q4 |  |  |  |  |
| (a) |  | $\mathrm{C}=1.10 \mathrm{~b}+45$ |  |  |
| (b) |  | \$100 |  |  |
| (c) | 95.45 | 95bars |  |  |
|  |  |  |  |  |
| Q5 |  |  |  |  |
| (a) | 2 |  |  |  |
| (b) | 60 cm | $60 \mathrm{~cm}^{2}$ |  |  |
|  |  |  |  |  |
| Q6 |  |  |  |  |
| (a) | $2 x+6 y$ |  |  |  |
| (b) | 30p |  |  |  |
| (c) | $\mathrm{W}^{4}$ |  |  |  |
| (d) |  | $\mathrm{x}^{4}$ |  |  |
| (e) | $42 \mathrm{~d}^{2}$ |  |  |  |
| (f) |  |  | $-20 y^{11}$ |  |


|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| \% | 5, 35 |  |  |  |
| ${ }^{(1)}$ |  | ${ }^{2}+2 \times$ |  |  |
| ${ }^{19}$ | ametoemese |  | 3ents |  |
|  |  |  |  |  |
| ${ }^{4}$ | ${ }_{x=18}$ |  |  |  |
| (1) |  | ${ }_{\text {xa } 160}$ |  |  |
| ${ }^{16}$ |  | Sels | ${ }_{x}^{x-3}$ |  |
|  |  |  |  |  |
|  |  |  |  |  |
| ${ }_{-6}^{\square 6}$ | ${ }^{\text {axp-4 }}$ |  |  |  |
|  |  | (exterex |  |  |
|  |  |  |  |  |


| Q10. |  |  | $\begin{aligned} & \mathrm{J}=3 \mathrm{~d}-10 \\ & 3 \mathrm{~d}-10=80 \\ & 3 \mathrm{~d}=90 \\ & \mathrm{~d}=\$ 30 \\ & \text { Dress costs } \$ 30 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  | Statistics |  |  |
| Q1 |  |  |  |  |
| (a) | Football, Basketball, Netball, Hockey, Rugby |  |  |  |
| (b) |  | The axis does not start at zero, it starts at 13. This makes the difference between boys and girls look bigger than it actually is. |  |  |
| Q2) |  |  |  |  |
| (a) | 77 |  |  |  |
| (b) |  | 79.2 |  |  |


| (c) | 82.5 |  |  |  |
| :---: | :--- | :--- | :--- | :--- |
| (d) |  |  | Because of the low score of 24, the mean is <br> low. The Median is not affected by the score of <br> 24. Therefore the Median is a better reflection <br> of points scored. Most scores are well above <br> 24. |  |
|  |  |  |  |  |
| Q3 |  | students. <br> Or $\frac{1}{6} \times 78=13$ |  |  |
| (a) | 2016,2017 |  |  |  |
| (b) |  |  | The number of sports injuries is higher in <br> the winter months and lower in the <br> summer months. Its seasonal |  |
| Q4 |  |  |  |  |
| Q5 |  |  |  |  |
| (a) |  |  |  |  |



|  |  |  | Diamonds scored highest goals of 30 <br> QR: Diamonds is 9 and Sapphires is 4.5 <br> Bigger spread in Middle $50 \%$ for |  |
| :--- | :--- | :--- | :--- | :--- |
| Diamonds. |  |  |  |  |$\quad$|  |
| :--- |


| Strand | AT (4) | ABOVE (6) | BEYOND (8) | Total |
| :--- | :--- | :--- | :--- | :--- |
| Number | $12^{*} 4=48$ | $6^{*} 6=36$ | $5^{*} 8=40$ | 124 |
| Algebra | $11^{*} 4=44$ | $16^{*} 6=96$ | $6^{*} 8=48$ | 188 |
| Statistics | $4^{*} 4=16$ | $3^{*} 6=18$ | $6^{*} 8=48$ | 82 |
| Grand Total | 108 | 150 | 128 | 394 |

AT = 40\% - 60\%
135-235

ABOVE $=61 \%-84 \%$
236-331

BEYOND = +85\%
$\geq 332$

