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| Y8.1) Eveuate: -5 + 9 x (7 + 3) + -7 |
| Y8.2) What is 45% of 35km? |
| Y8.3) Evaluate: |
| Y8.4) The diameter of the given circle is 12m. Find the area of the shaded region. (Use π = 3.14)  120o  Diagram Not to Scale |

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| Y8.5) Churchill Park Lautoka ground use charge is $2700 plus 8% of income generated from gate takings. Lautoka sports club organized a soccer tournament at Churchill Park. They gate takings were as stated in the table. How much did the Lautoka Sports Club pay for the use of Churchill Park?   |  |  |  | | --- | --- | --- | | **Ticket Type** | **Ticket Price** | **Number Sold** | | Embankment | $5 | 1356 | | Grand Stand | $12 | 749 | | VIP | $35 | 15 | |
| Y8.6) Ravi bought a land of 1220m2 for farming purpose. He has used 320m2 for road, drain and storage shed. In of the remaining land he has planted cabbage and long bean in of the land. In the rest of the area he has planted carrot. What is the size of the plot for carrot? |
| Y8.7) A farmer has 50 sandalwood trees which he plans to sell to get a total sales of $360. However before he could start the sales,18 trees were eaten by goats. By how much should the farmer increase the price of each tree so that he does not incur any loss due to the damage? |
| Y8.8) Susan conducted a survey of favourite fruits of students in her school. The results are displayed in the table. The number of students who like mango is 66. How many students like apple?   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Fruit** | Apple | Pineapple | Grape | Mango | | **Percentage of Students** | 25% | 5% | 40% | 30% | |

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| Y8.9) The value of a car is reduces by 10% each year. Vikash bought a brand new car for $90000. What will be the value of the car after 5 years? |
| Y8.10) The perimeter of a rectangle is 420cm. Its length is twice its width. What is the length of the rectangle? |
| Y8.11) The volume of a 30cm cube is same as the volume of the given triangular prism. What is the height for the altitude for the triangular ends of the prism? (Diagram not to scale)    25cm  16cm |
| Y8.12) The number of year 9 students at a high school is as per the table. They had to choose between golf and tennis. 13 students in 9A choose golf. In 9B, 10 more students chose to play golf than tennis and in 9C of the students like tennis. If a child is picked at random, what is the probability that he has chosen golf? (Give answer in lowest fraction)   |  |  | | --- | --- | | **Class** | **Number of Students** | | 9A | 24 | | 9B | 28 | | 9C | 30 | |

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| Y8.13) Ken is training for a swimming competition. His training for last week is as per the table below. What is the average time he spends training? (Give answer in hours and minutes)   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Day | Monday | Tuesday | Wednesday | Thursday | Friday | | Time | 2 ¾ hours | 148 minutes | 1 hour 50 minutes | 2 hours | 2hours 10 minutes | |
| Y8.14) The **North American X-15** was the fastest fighter jet. During a training flight it flew at an average speed of 6012km/h for 24 minutes. What was the distance travelled by the jet? |
| Y8.15) Sam is building a play house for his children. The Material and price for the materials are listed in the table. How much will Sam spend on buying the materials? (Lowest denomination in Fiji is 5 cents)   |  |  |  | | --- | --- | --- | | Quantity and size | Item | Price | | 6 x 2m | Roofing iron | $9.16/m | | 8 x 2.4m | Timber (100 x50) | $4.25/m | | 24 x 2m | Timber (25 x100) | $2.45/m | | 2kg | Nails | $4.95/m | |
| Y8.16) 90is 30% of *m* and 299 is 46% of *n.* What is the value of *m*+*n*? |

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| Y8.17) A swimming pool has two water taps connected to it. Tap one can fill the swimming pool in 8 hours and tap two can fill the swimming pool in 12 hours. If both the taps are opened at the same time, how long will it take for the swimming pool to fill up? (Give answer in hours and minutes) |
| Y8.18) The exchange rate for Australian $1.00 is Fijian $1.50  Arvin want to change $1230 Fijian dollars to Australian dollars. How much will he get? |
| Y8.19) Mike planted a pine tree and a mahogany tree, both of 40cm. The growth rate for pine is 60cm/year while mahogany grows at a rate of 90cm/year. What will be height of the mahogany tree when the pine tree is 12.9m? |
| Y8.20) Zack’s mother baked a pie. She cut of the pie and gave it to their two neighbours. When Zack reached home after school and ate of the left over pie. When Zack’s older brother reached home after soccer practice he had of the remaining pie. The rest of the pie was equally shared by Zack’s parents after Dinner. What fraction of the original pie did the parents eat? (Give answer in lowest fraction) |