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| Y8.1) What is the next number in the sequence {1,3,6,10,15,…….} |
| Y8.2) Line AB and CD are parallel. Find the value of angle β if angle α is 52o and θ is 29o  A  B  C  D  β  θ |
| Y8. 3) What is |
| Y8.4) What is the size of angle marked 2x in the triangle below? |

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| Y8.5) Simplify: (4ab2c)3 |
| Y8.6) Calculate the total surface area of the rectangular prism.  6.5m    5m  4.5m |
| Y8.7) A Fiji Airways plane flies from Nadi to Brisbane at an average speed of 645km/h. The flight departed Nadi at 11:58am (Fiji Time) and flew a distance of 2709km. At what time (Brisbane Time) did the aeroplane reach Brisbane? (Give answer in 12 hour clock format, Brisbane is 2 hours behind Fiji) |
| Y8.8) A frog is on the bottom of a 40 meter well. Each day, he has enough energy to crawl up 8 meters. Each night, he slips 2 meters downward. How many days will it take for the frog to crawl out of the well? |

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| Y8.9) Vasiti spent $176300 for purchasing a new house. This amount was 82% of her life savings. How much of her savings is left? |
| Y8.10) A cattle farmer decided to fence his rectangular farm with 5 rows of barbed wire. He plans to have a wooden gate 3.5 m wide. The barbed wire costs $2.50 a metre. How much money would he spend? |
| Y8.11) Ramesh went shopping and bought the items as shown in the table. What is the total cash he paid for the shopping? (Lowest denomination for Fiji currency is 5 cents)   |  |  | | --- | --- | | **Groceries** | **Cost** | | Rice | $7.35 | | 3.4kg Onion | $2.95 / kg | | 3 can tin tomatoes | $1.98 each | | 9 pack Diapers | $14.83 each | | 6 pack washing powder | $3.14 each | |
| Y8.12) In the Term End Examination Maria wants to get a minimum average of 85% for the total of 7 subjects. The marks for her papers are as in the table.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Subject | English | Maths | Social/Sc | Comm St | Basic/Sc | Hindi | Home Eco | | Mark | 79 | **?** | 95 | 80 | **?** | 84 | 81 |   Her marks for Mathematics is 8 more than Basic Science. What is the minimum possible mark that Maria scored in Mathematics if she was able to archive her target of 85%? |

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| Y8.13) Mary wanted to buy a double bed from Courts. The Cash Price is $850.00. The hire purchase is $150.00 deposit and $30.00 monthly instalments for 2 ½ years. A processing fee of $20 is charged for hire purchase items. She takes the bed for hire purchase on monthly instalments. How much she would have saved, if she had bought it on cash? |
| Y8.14) What fraction of a circle is an angle of 72°? |
| Y8.15) What will be the output of the number machine? (*n* represents the input*)*    **2*n*2-7x3.2**  **14.6**  **?** |
| Y8.16) A line segment CD is drawn on the Cartesian plane. The coordinates are C(-6,3) and D(-2,5). What is the coordinate of the midpoint of line segment CD. |

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| Y8.17) James bought a house for $225,800. The cost of renovating the house was $22,500. After renovation he paid $1700 to a local real estate agent to sell the house. The agent sold the house for $285,000. What was the percentage profit made by James? |
| Y8.18) After retirement, Aysha invested her FNPF funds with a bank for 3 years on the interest rate as stated in the table. The principal amount was $150,000 and the interest for the 2nd and 3rd year is calculated on the accumulated amount (compound interest). At the end of the 3rd Year what is the total amount that Aysha will receive?   |  |  | | --- | --- | | Year | Interest rate | | 1st | 5% | | 2nd | 7% | | 3rd | 8% | |
| Y8.19) Ken drew a rectangle with area 55cm2 and perimeter 32cm. What is the length of the rectangle? |
| Y8.20) A cuboid of 7cm x 4cm x 3cm has been painted and cut into small cubes of 1cm x 1cm x 1cm. How many cubes will have none of the sides painted? |