|  |
| --- |
| Y10/1 5 + 2 × (6 + 8 ÷ 2) |
| Y10/2 A number pattern is given as: 9, 12, 11, 14, 13, 16, x, 18, …  What is the value of x? |
| Y10/3 Two friends Tom and Jerry have sums of money which total $26.If Tom had twice as much money, the sum of the money would be $40. How much does each have? |
| Y10/4  A 5 m ladder is leaning against a wall. The foot of the ladder is 3 m out from the wall along the ground. How far up the wall does the ladder reach? |

|  |
| --- |
| Y10/5  Mrs. Fisher is buying garden lime, which she will sprinkle onto her flower garden. One handful of lime covers 2 square meters of the garden. Her garden is circular with a circumference of 44 m. How many handfuls of lime should she sprinkle to cover the whole area? (Use π = ) |
| Y10/6 Factorise and simplify. |
| Y10/7 What is the area of the triangle with vertices (1, 2), (4, 2), and (4, 6)? |
| Y10/8 Factorise completely + 3 + 2x |

|  |
| --- |
| Y10/9 Solve for x: |
| Y10/10 Find the gradient of the line joining points P (-3, -4) and Q (2, -6). |
| Y10/11 A square room is made 3 m longer and 2 m wider. Its new area is 90 m2. Find its original area. |
| Y10/12 Lemon cordial drink is made from cordial concentrate and water. If 2 L of Lemon cordial drink in a jug has a strength of 15 %, Calculate the volume of water in the jug. (Give your answer in Litres) |

|  |
| --- |
| Y10/13 Diana is sharing 60 lollies between 3 of her friends in the ratio 2 : 3 : 5. The difference between the largest and the smallest share of lollies is |
| Y10/14 The following marks were obtained by some students in their mid – term Mathematics paper. {14, 14, 13, 15, 16, 13, 14, 17}.  Calculate the mean mark. |
| Y10/15 Solve for x in the equation: 2(x + 5) = 3(2x – 6) |
| Y10/16  The sum of two numbers is 42 and their difference is 4. The smaller of the numbers is: |

|  |
| --- |
| Y10/17 Calculate the total amount at the end of 5 years if $12 000 is invested at a rate of  9.5 % per annum simple interest. |
| Y10/18 Solve the following equation for x: |
| Y10/19 Factorise: 4x2 - 25 |
| Y10/20 In one full revolution, the 6-cm long minute hand of a clock would sweep out a larger circle than the 3-cm long hour hand. What is the difference in the area they cover to the nearest square centimeter? (Give your answer in terms of π). |