YEAR 11 HOMEWORK – 2S

BOOKLET 2

Complete the questions in each box. Make sure that you show all of your workings

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| 1. Write as a decimal. | 2. Write down a multiple of 7 that is between 30 and 40 |
| 3. Simplify 7f X 5g | 4. Ken buys some fruit. He buys apples, bananas, peaches and oranges.  Ken buys  4 apples weighing 120 g each  2 bananas weighing 140 g each  3 peaches weighing 110 g each  Each orange has a weight of 90 g. The fruit has a total weight of 1.45 kg.  Work out how many oranges Ken buys. |
| 5. 60 students were asked how they get to school.  The table shows the results.  **Bus Walk Car Bicycle**  **Number of students** 10 25 15 10  Complete a pie chart for the information in the table. | 6. Annie and Lily share some money in the ratio 5 : 2  What fraction of the money does Lily get? |
| 7. Steve says,  “There are more prime numbers between 20 and 30  than there are between 30 and 40”  Is Steve right?  You must show how you get your answer. | 8. Chrissy drew this graph to show the percentage of buses that got to a bus stop on time  for six months.  Write down one thing that is wrong with the graph    90  80  70  60  50  % of buses on time  40  30 |
| 9. Here is a map of an island. Work out the distance between the 2 villages    1cm represents 2km | 10. Find the area of the shape  3.5cm  2.5cm  3cm  4cm |
| 11. Write the mathematical name of the shape | 12. Simplify k + k + p |
| 13. A cinema ticket costs £x The price of a child’s ticket is one third the price of an adult ticket. Write an expression for the price, in pounds, of a child’s ticket | Graphical user interface  Description automatically generated14. Find the output if the input is  +2  -7 |
| 15. What goes in the gap?  18 + \_\_\_\_ = 33 | 16. Solve 2x + 6 = 18 |

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| 17. Find the bearing of A from B    57o | 18. Triangle C is congruent to which other shape? |
| 19. Expand and simplify  (x + 3)(x + 5) | 20. Factorise x2 + 9x - 10 |

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