**Year 9 Foundation: Assessment 3 Revision HW (Non-Calculator) Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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|  | **Topic 8: Probability** | Mark |
| 1. | Choose from the following words **impossible unlikely even chance likely certain**Getting Tails when you toss a coin …………………………Rolling a number less than 2 on a dice ………………………… | (2) |
| 2. | Place an arrow where each probability lies.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
| **0** |  | **¼**  |  | **½**  |  | **¾**  | **1** |

a) Next year will have 12 months. Label Ab) Choosing the letter L from the work UNLIKELY . Label B. |  (2) |
| 3. | In a class **10** pupils have brown hair, **8** pupils have blonde hair and **3** have black hair. What is the probability of picking: a) a person with blonde hair? ……………b) a person who does not have brown hair? …………… |  (2) |
| 4. | A spinner has four sections A, B, C and D.The table shows the probabilities of the spinner landing on A, B or C.

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| --- | --- | --- | --- | --- | --- |
|   | **Outcome** | A | B | C | D |
|   | **Probability** | 0.2 | 0.3 | 0.1 |   |

Work out the probability of landing on D. …………………… |  (2) |
| 5. | Complete the list of possible outcomes when a dice is rolled and a coin is tossed at the same time.(Heads, 1) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………… | (2) |
|  |  | 10 |

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|  | **Topic 9: Fractions** | Mark  |
| 1. | (a) Write 0.3 as a fraction  ……………………(b) Write 36% as a decimal ……………………(c) Write $\frac{1}{2}$ as a percentage  …………………… |  (1)  (1)  (1)  |
| 2. | There are 120 people at a party.  $\frac{1}{3} $of the people leave the party.Work out the number of people still at the party.  …………………… | (1) |
| 3. | Sam has £48. He spends $\frac{3}{4} $of the £48. Work out how much money Sam has left. …………………… | (2) |
| 4. | Work out:1. $\frac{2}{7}$ + $\frac{3}{7}$ …………………… (b) $\frac{7}{8}$ - $\frac{3}{8} $……………………
 | (2) |
| 5. | Work out $\frac{2}{7}+\frac{1}{5}$  …………………… |  (2) |
|  | **Topic 10: 2D Shapes and Angles** | Mark |
| 1. | (a) Write down the special name for this type of angle  …………………………………(b) Measure the angle marked x  …………………………… ˚ | (2) |
| 2. | (a)  Work out the size of the angle marked *x*.  ……………………°(b) Give a reason for your answer.………………………………………………………………………………………………………………………………………………… | (2) |
| 3. | (a)  Work out the size of the angle marked *x*.  ……………………°(b) Give a reason for your answer.………………………………………………………………………………………………………………………………………………… | (2) |
| 4. | (a) What is the special name given to this type of triangle? …………………………(b) Work out the size of the angle marked *x*.   ………………………… ° | (2) |
| 5. | Name each shape:   ………………………………………………… ………………………………………… | (2) |
|  |  | 10 |
|  | **Topic 11: Linear Graphs** | Mark |
| 1. | (a)  Write down the coordinates of the point *A*.  (................... , ......................)(b)  Write down the coordinates of the point *B*. (................... , ......................)(c)  On the grid, draw the line *x* = 3 | (3) |
| 2. | (a)   Complete the table of values for  *y* = 2*x* + 3 for values of *x* from 0 to 5

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| --- | --- | --- | --- | --- | --- | --- |
| *x* | 0 | 1 | 2 | 3 | 4 | 5 |
| *y* |  |  |  |  |  |  |

(b) on the grid, draw the graph of  *y* = 2*x* + 3  for values of *x* from 0 to 5 | (2) (2) |
| 3. | One day Jane cycled from home to college. She stopped at a shop on the way to college.The travel graph shows Jane's journey from home to college. (a)   Write down the distance from Jane's home to college  .........................km1. Write down how long Jane stopped at the shop ............... minutes
 |  (2) |
| 4. | You can use this conversion graph to change between kilograms and pounds.Use the conversion graph to change 5 kilograms to pounds............................................ pounds  | (1) |
|  |  | 10 |