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| **Statistics and Probability Revision**  | **5** |
| **(a)** | **(b)** |
| When a drawing pin is thrown, it can land point up or point down. The probability that the drawing pin lands point up is 0.7. Maya throws the drawing pin twice.  | The table gives information about the birth weights of 80 piglets. (i) Complete a cumulative frequency graph. |
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| Weight $w$ (kg) | Cumulative frequency |
| $$0\leq w<0.2$$ | $$8$$ |
| $$0\leq w<0.4$$ | $$17$$ |
| $$0\leq w<0.6$$ | $$33$$ |
| $$0\leq w<0.8$$ | $$58$$ |
| $$0\leq w<1$$ | $$74$$ |
| $$0\leq w<1.2$$ | $$80$$ |

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| (i) Complete the tree diagram. | (ii) Work out the probability that the drawing pin lands point up both times.(iii) Work out the probability that the drawing pin lands point up exactly once. |
| (ii) Use the graph to estimate the median and interquartile range of the weights of the piglets. |
| **(c)** | **(d)** |
| Here is a list of ages of the fifteen students in a school library on a Monday lunchtime.$$12 9 15 16 10 9 11 10 9 13 15 10 8 17 15$$(i) Find the median age.(ii) Find the interquartile range of the ages. | Complete the histogram for the information in the table. |
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| Height $h $(cm) | Frequency |
| $$10\leq h<30$$ | $$8$$ |
| $$30\leq h<40$$ | $$18$$ |
| $$40\leq h<50$$ | $$24$$ |
| $$50\leq h<60$$ | $$20$$ |
| $$60\leq h<100$$ | $$12$$ |

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