1 The table shows information about the weights, in kilograms, of 40 babies.

Weight (w kg)	Frequency	
$2 < w \leqslant 3$	12	
$3 < w \leqslant 4$	16	
$4 < w \leqslant 5$	9	
$5 < w \leqslant 6$	2	
6 < w ≤ 7	1	

One of the 40 babies is going to be chosen at random.

(c) Find the probability that this baby has a weight of more than 5 kg.

Baby weight more than 5 kg =
$$\frac{2}{40}$$
 + $\frac{1}{40}$ (1)

A student in class 8R is to be chosen at random.

The probability that this student won at least one gold star last week is 0.39

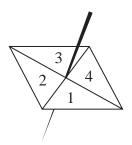
2 (b) Work out the probability that this student did **not** win at least one gold star last week.

0.61

(1)

(Total for Question 2 is 1 marks)

3 Here is a biased 4-sided spinner.



The table gives the probabilities that, when the spinner is spun once, it will land on 1 or it will land on 3

Number	1	2	3	4
Probability	0.26	0.28	0.18	0.28

The probability that the spinner will land on 2 is equal to the probability that the spinner will land on 4

Ravina is going to spin the spinner a number of times.

Ravina works out that an estimate for the number of times the spinner will land on 3 is 45

Work out an estimate for the number of times the spinner will land on 4

P(2 or 4)
$$\frac{(1-0.26-0.18)}{2}$$

$$= \frac{0.56}{2} = 0.28 \text{ (1)}$$

Land on 4;
$$\frac{45}{0.18} \times (0.28)$$

$$= \frac{150}{0} (0.28)$$

$$= \frac{150}{0} (0.28)$$

70