## Picking Pocket Money

$\$ 1$

At the start of the year, Shelley's parents offer her two options for her weekly pocket money. Once she has made up her mind, she must stick with the option she chooses


## Activity

1. Discuss with a classmate which is the better option for Shelley. Why do you think so?
2. With your classmate, try this experiment:

Roll the money dice 52 times, once for each week of the year. Record the results in a table like the one below. At the end of each month, work out whether the dice has given a better return than a fixed $\$ 5$ per week deal.

|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan |  |  |  |  |  |  |
| Feb |  |  |  |  |  |  |
| Mar |  |  |  |  |  |  |
| Apr |  |  |  |  |  |  |
| May |  |  |  |  |  |  |
| June |  |  |  |  |  |  |
| July |  |  |  |  |  |  |
| Aug |  |  |  |  |  |  |
| Sep |  |  |  |  |  |  |
| Oct |  |  |  |  |  |  |
| Nov |  |  |  |  |  |  |
| Dec |  |  |  |  |  |  |

3. Based on your experiment, what advice would you give Shelley? How sure are you that your advice is good?
4. Compare your advice with that of other groups who have tried the same experiment. What do you find?
5. Pool your data with that of the other groups who have done this experiment. What do you find? What advice would you now give to Shelley?
