**frequency**

**EXPRESSIONS**

**relative**

**EXPRESSIONS**

**C**

**Pythagroas**

**GRADE BUSTER**

*Your ‘5 a day’ mathematical workout*

1. The outcomes of rolling a dice are as follows:

|  |  |
| --- | --- |
| Colour | Frequency |
| Blue | 23 |
| Red | 12 |
| Green | 26 |
| Yellow | 39 |

a) What is the relative frequency of getting green?

b) What is the relative frequency of getting blue?

2. If the dice in Question 1 is rolled 20 more times, how many times would you expect each colour to appear?

3. Pam is putting the digits 1, 2, 3, 4 on a spinner such

that the probability of getting an odd number is

at least twice the amount of getting an even number.

She can use the digits as many times as needed.

Find 3 different ways of labelling the spinner.

4. i) Explain what is wrong with the following

*a) 0.4 + 0.15 = 0.19*

*1 – 0.19 = 0.81*

|  |  |  |  |
| --- | --- | --- | --- |
| Team | United | City | Rovers |
| Probability | 0.4 | 0.15 | 0.81 |

*b) 15*

solution:

60 Students are asked to name their

favourite football team. The table

shows the probability a student chosen

at random supporting United, City or Rovers

|  |  |  |  |
| --- | --- | --- | --- |
| Team | United | City | Rovers |
| Probability | 0.4 | 0.15 |  |

a) Complete the table.

b) How many students supported City?

ii) Find the correct solution

5) Two dice are rolled 100 times with the following results:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Number | 1 | 2 | 3 | 4 | 5 | 6 |
| Dice A | 15 | 20 | 14 | 22 | 13 | 16 |
| Dice B | 30 | 14 | 18 | 14 | 19 | 5 |

Comment on the results.

|  |  |  |  |
| --- | --- | --- | --- |
| Qu |  | ☺ | ☹ |
| 1 & 4 | I can calculate relative frequency |  |  |
| 2, 3, 4 & 5 | I can solve problems using relative frequency |  |  |

|  |
| --- |
| Top tips I must remember for the exam: |
| ☺  ☺  ☺ |
| Types of questions I need to practise more: |
| ☺  ☺  ☺ |