Year 5 Maths Extension Word Problems Week 3 Term 4

1. Drake and Kendrick are doing magic tricks with the diamond picture cards. Drake places the cards face down in a random order. He challenges Kendrick to guess the order of the cards on the table.

As a fraction and a decimal to three decimal places, what is the probability that Kendrick will guess the right order?
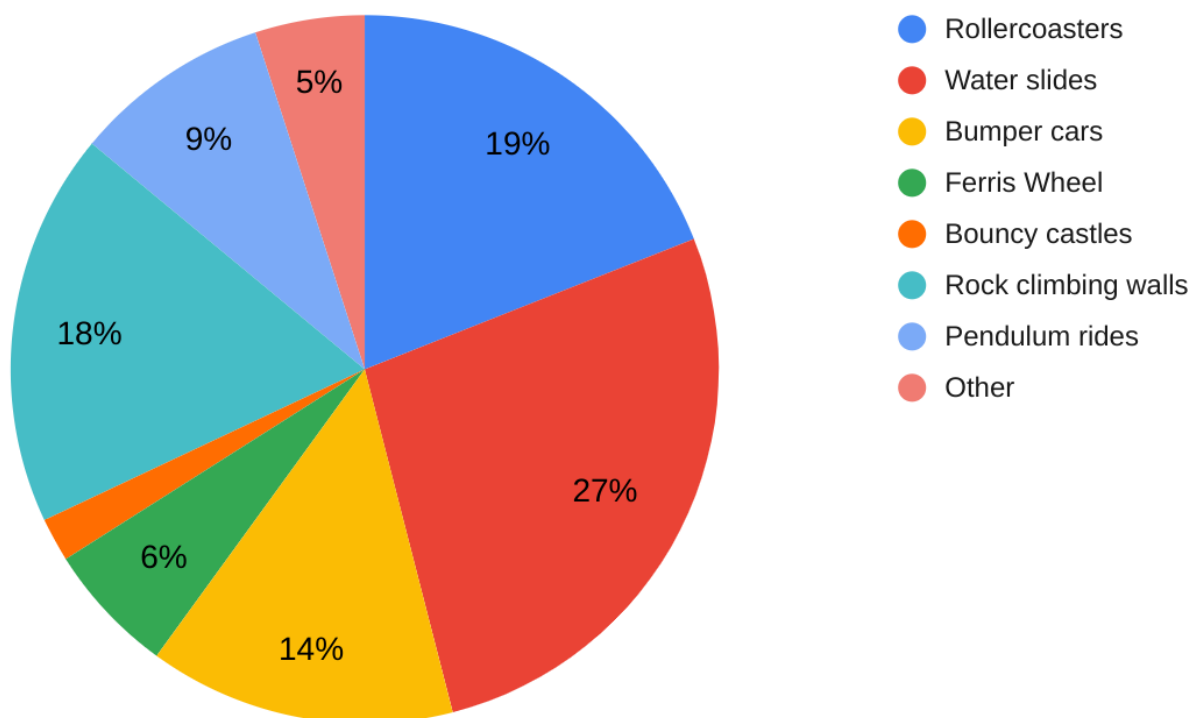
Kendrick gets the diamond number cards and selects four cards with single digits greater than five and places them face down on the table in a random order. He challenges Drake to guess the order of the numbers on the table.

What is the probability, as a fraction and a decimal, that Drake will guess the right order?

2. The visitors to an amusement park on a particular day were asked to vote for their favourite attraction type so the park owners could purchase more attractions. If 324 people voted for pendulum rides on this day, how many people participated in the survey?

Favourite amusement park attractions

- ● Rollercoasters
- ● Water slides
- ● Bumper cars
- ● Ferris Wheel
- ● Bouncy castles
- ● Rock climbing walls
- ● Pendulum rides
- ● Other

Pie chart values: 19%, 27%, 14%, 6%, 18%, 9%, 5%

3. A car sales company recorded the year car sales for each of the three major brands it stocks, over 3 years. Boulder offered the company a bonus if they sold 20% more than any other brand over the three years. Did they receive a bonus?

Cars Sold Over Three Years