

## Dice Races

You will be using two dice on the desk for this activity.  
 Start with the Sums race and then work through the other races in order.  
 You should write your results in the tables on your recording sheet.

1. Before you start each race, write down the positions you predict the horses will be in as the winner crosses the finishing line.

Use the row of the table that is labelled “Your Prediction”.

Why do you think this?

Write down your reason next to the table in the space provided.

### Sums dice race

Roll the dice and mark the recording sheet according to the sum shown on the dice on each throw.  
 When a row passes the finishing line, i.e. into box 12, that horse is the winner.

2. Run each race several times.

Each time, record the positions of the horses as the winner crosses the line. (Count how many crosses there are in each row).

Also run races based on the Difference between the numbers on each die, as well as the Multiples of the values on the dice, and the Maximum value shown.

3. Try to explain any patterns you find in your data.

<b>2</b>													
<b>3</b>													
<b>4</b>													
<b>5</b>													
<b>6</b>													
<b>7</b>													
<b>8</b>													
<b>9</b>													
<b>10</b>													
<b>11</b>													
<b>12</b>													
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	

## Recording Sheet for Dice Races

Addition Race	Horse number										
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	2	3	4	5	6	7	8	9	10	11	12
<b>Your prediction</b>											
<b>First race</b> (actual finishing positions)											
<b>Second race</b> (actual finishing positions)											
<b>Third race</b> (actual finishing positions)											

Difference Race	Horse number					
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	0	1	2	3	4	5
<b>Your prediction</b>						
<b>First race</b> (actual finishing positions)						
<b>Second race</b> (actual finishing positions)						
<b>Third race</b> (actual finishing positions)						

Max Race	Horse number					
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	1	2	3	4	5	6
<b>Your prediction</b>						
<b>First race</b> (actual finishing positions)						
<b>Second race</b> (actual finishing positions)						
<b>Third race</b> (actual finishing positions)						

Multiples Race	Horse number				
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	2	3	4	5	6
<b>Your prediction</b>					
<b>First race</b> (actual finishing positions)					
<b>Second race</b> (actual finishing positions)					
<b>Third race</b> (actual finishing positions)					