

# The Olympics Rio 2016 KS2 Maths Challenge Cards



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## 1. Graph it

| Year | Number of GB & NI competitors |
|------|-------------------------------|
| 1992 | 20                            |
| 1996 | 15                            |
| 2000 | 28                            |
| 2004 | 30                            |
| 2008 | 47                            |
| 2012 | 65                            |

Here are the number of medals won by Great Britain and Northern Ireland at the last 6 Olympic Games.

Present this information in a bar graph or line graph. Use a scale of 5 medals for each square.

What other information could you use to create a graph?

### Ideas

Total number of medals won in all summer Olympics.

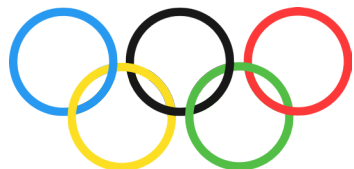
Times or distances in athletic events.

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## 2. Olympic Rings

Here are the Olympic Rings. In this format there are 9 space enclosed by the rings.



If you have 1 ring, you have 1 space.



If you have 2 rings in a row, what is the maximum number of spaces?



What about 3, 4 and 5 rings?

Can you spot a pattern?

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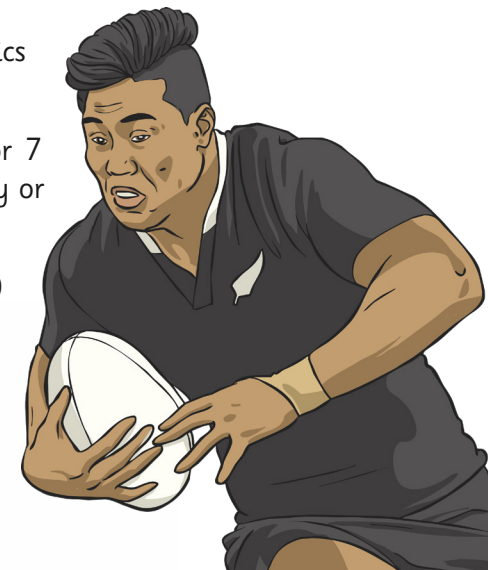


## 3. Sevens It

In Rio, rugby returns to the Olympics after 92 years.

In Rugby, a team can score 3, 5 or 7 points for a penalty, unconverted try or converted try.

In what ways can the scores from 10 to 20 be made?





#### 4. Ticket It

The Olympics in 2016 are in Rio de Janeiro, in Brazil. Here are the actual prices of some of the tickets. Half price tickets are available to Brazilian residents over 60, and teachers and students in Rio de Janeiro. Calculate the half price cost of the following tickets.

The exchange rate at the time of printing was about £1 to R\$5. Now, calculate the approximate cost of each ticket in sterling (British pounds).

| Event                 | Full Price ticket (R\$) | Half Price Ticket (R\$) |
|-----------------------|-------------------------|-------------------------|
| Opening Ceremony      | 4600                    |                         |
| Athletics             | 1200                    |                         |
| Marathon              | 70                      |                         |
| Gymnastics            | 540                     |                         |
| Football              | 580                     |                         |
| Cycling               | 250                     |                         |
| Diving                | 900                     |                         |
| Equestrian – Eventing | 420                     |                         |
| Closing Ceremony      | 2100                    |                         |



#### 5. Torch It

The Olympic Torch starts its journey through Brazil on 3rd May 2016. It will travel through over 300 cities. The torch will pass through Brasília, Corumbá, Pirenópolis and Anápolis.

Can you find 3 different routes to visit all 4 places? How far would the torch travel for each route? Which is the longest distance and which is the shortest?

