

Q1. A box contains only red pencils and blue pencils.
The ratio of the number of red pencils to the number of blue pencils is 2 : 3.

What fraction of the pencils are red?

.....

(Total 2 marks)

Q2. The table shows some information about the medals won by each of 6 countries at the 2004 Olympic Games.

Country	Medals			Total
	Gold	Silver	Bronze	
United States	35	39	29	103
Russia	27	27	38
Australia	17	16	49
Germany	14	16	18	48
Italy	10	11	11	32
Great Britain	9	9	12	30

(a) Complete the table for Russia and Australia.

(2)

(b) How many bronze medals did Russia win?

.....

(1)

- (c) Which country won 10 gold medals?

.....

(1)

Great Britain won a total of 30 medals.

- (d) Work out the fraction of these medals which were silver.
Give your fraction in its simplest form.

.....

(2)

- (e) Find the ratio of the total number of medals won by Germany to the total number of medals won by Italy.
Give your ratio in its simplest form.

.....

(2)

(Total 8 marks)

M1.

Answer	Mark	Additional Guidance
$\frac{2}{5}$	2	B2 for $\frac{2}{5}$ (B1 for $\frac{a}{5}$ or $\frac{2}{b}$)
Total for Question: 2 marks		

M2.

	Working	Answer	Mark	Additional Guidance
(a)		92 and 16	2	B1 for 92 B1 for 16
(b)		38	1	B1 cao
(c)		Italy	1	B1 cao
(d)	$\frac{9}{30}$	$\frac{3}{10}$	2	B2 cao (B1 for $\frac{9}{30}$)
(e)	48:32	3:2	2	B2 cao (B1 for sight of 48, 32 or two numbers in correct proportion) SC B1 for 2:3
Total for Question: 8 marks				

- E1.** For many candidates it was too easy to write the answer as $2/3$. Only a minority gave the correct answer of $2/5$.
- E2.** The first three parts of this question were answered very well with nearly all candidates gaining at least 3 of the first four marks available. Working out the simplified fraction in part (d) proved more of a challenge. However, about 60% of candidates were awarded at least one mark for giving the fraction in an unsimplified form even if they could not give its simplest form. Responses to part (e) were also good with nearly all candidates using acceptable notation. Where candidates did not give the answer 3:2 it was often through incorrect or incomplete simplification or because they gave 2:3 as their answer.