

Thursday 11<sup>th</sup> June

The Sumdog competition continues so before you tackle the questions and investigation below, login to <https://pages.sumdog.com/> using your Mymaths login and password and take part!

Fluent in five!

Remember to think first as to whether you need to use a written method (W), or a mental method (m).

Check your answers, and if you made any mistakes, see if you can work out what you did wrong.

$$A. \frac{2}{3} \text{ of } 24 =$$

$$B. 85,542 + 432,594 =$$

$$C. 91.543 \times 10 =$$

$$D. 67 \times 17 =$$

$$E. 678 - 90 =$$

**Q1** This table shows the height of the four tallest mountains in Europe.

Mountain name	Height in feet
Mount Elbrus	18,510
Mount Shkhara	17,064
Mont Blanc	15,774
Monte Rosa	15,203

How much higher are Mount Elbrus and Mount Shkhara combined than Mount Blanc and Mount Rosa combined?

feet

2 marks

**Q2** Complete this table.

Number	Rounded to the nearest thousand
5,843	
874,732	
699,847	
43,743,743	

2 marks

**Q3** Draw lines to match the equivalent proportions.

- |               |     |
|---------------|-----|
| $\frac{1}{2}$ | 25% |
| $\frac{1}{4}$ | 0.5 |
| $\frac{1}{5}$ | 80% |
| $\frac{2}{5}$ | 20% |
| $\frac{4}{5}$ | 0.4 |

2 marks

## Investigation Time!

In the  $2 \times 2$  multiplication square below, the boxes at the end of each row and the foot of each column give the result of multiplying the two numbers in that row or column.

7	5	35
3	4	12
21	20	

$7 \times 5 = 35$   
 $3 \times 4 = 12$   
 $7 \times 3 = 21$   
 $5 \times 4 = 20$

Complete the two grids below in the same way.

7	5	35
3		12
	20	

8		24
		12
	18	

Now can you try this  $3 \times 3$  multiplication grid, where you need to multiply 3 numbers together?  
You will need to use each of the digits 1-9, but only use each one once.

			15
			108
			224
144	8	315	

HINT: Start with the column with the total of 8

Answers

$$\text{A. } \frac{2}{3} \text{ of } 24 = 16 \text{ (M)}$$

$$\text{B. } 85,542 + 432,594 = 518,136 \text{ (W)}$$

$$\text{C. } 91.543 \times 10 = 915.43 \text{ (M)}$$

$$\text{D. } 67 \times 17 = 1,139 \text{ (W)}$$

$$\text{E. } 678 - 90 = 588 \text{ (M)}$$

**Q1** This table shows the height of the four tallest mountains in Europe.

Mountain name	Height in feet
Mount Elbrus	18,510
Mount Shkhara	17,064
Mont Blanc	15,774
Monte Rosa	15,203

How much higher are Mount Elbrus and Mount Shkhara combined than Mount Blanc and Mount Rosa combined?

**4,597** feet

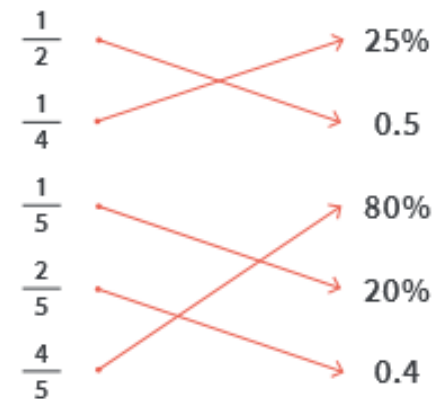
2 marks

**Q2** Complete this table.

Number	Rounded to the nearest thousand
5,843	<b>6,000</b>
874,732	<b>875,000</b>
699,847	<b>700,000</b>
43,743,743	<b>43,744,000</b>

2 marks

**Q3** Draw lines to match the equivalent proportions.



2 marks

7	5	35
3	4	12
21	20	

8	3	24
2	6	12
16	18	

3	1	5	15
6	2	9	108
8	4	7	224
144	8	315	