

# Who, where and when?

## Who?

One of the following four people has committed a crime. The criminal made 1 error, the victim has made 2 errors and the other two suspects have made 0 errors.

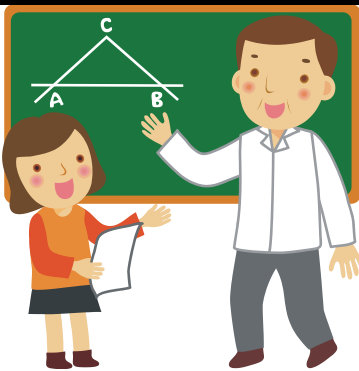
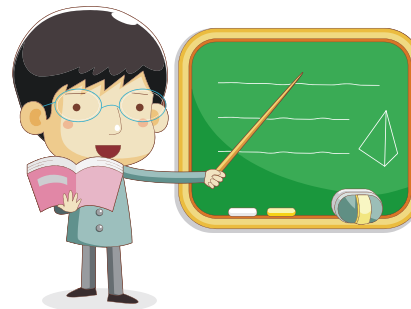
The ICT teacher made the following statements:

- 12 is a multiple of 2
- 6 is a triangular number
- 2 is the only even prime number
- 4 is a square number



The history teacher made the following statements:

- 5 is a factor of 20
- 16 is the 4<sup>th</sup> square number
- 20 has 6 factors
- 40 is a multiple of 8



The maths teacher made the following statements:

- 12 has 6 factors
- 1 is a prime number
- 21 is the 6<sup>th</sup> triangular number
- 4 is a factor of 18

The English teacher made the following statements

- 3 is both a prime and a triangular number
- 25 is a multiple of 5
- 9 has 3 factors
- 5 is a multiple of 20



## Where?

The murder was committed at one of the locations below, but which one?  
It happened where TWO of the calculations are correct.

<b>The maths classroom</b>	Multiples of 8 are 8, 16, 24 All the factors of 6 are 1, 2 and 3 6 is both a factor and a multiple of 32
<b>The dining hall</b>	All the factors of 6 are 2, 3, and 6 Multiples of 8 are 16, 24 and 32 Lowest common multiple of 6 and 10 is 60
<b>The gym</b>	6, 12, 18 and 24 are factors of 6 Multiples of 8 are 8, 16, 24 and 32 Highest common factor of 6 and 10 is 30
<b>The playing fields</b>	Multiples of 8 are 1, 2, 4, and 8 1, 2, 3 and 6 are all the factors of 6 Lowest common multiple of 6 and 10 is 30

## When?

Find the day where **BOTH statements** are correct:

<b>Monday</b>	<ul style="list-style-type: none"><li>72 can be written as <math>2 \times 2 \times 2 \times 3 \times 3</math></li><li>104 can be written as <math>2 + 2 + 2 + 13</math></li></ul>
<b>Tuesday</b>	<ul style="list-style-type: none"><li>80 can be written as <math>2^4 \times 5</math></li><li>72 can be written as <math>3^3 \times 2^2</math></li></ul>
<b>Wednesday</b>	<ul style="list-style-type: none"><li>104 can be written as <math>2 \times 2 \times 2 \times 13</math></li><li>40 can be written as <math>2^4 \times 5</math></li></ul>
<b>Thursday</b>	<ul style="list-style-type: none"><li>72 can be written as <math>2 \times 2 \times 3 \times 3</math></li><li>80 can be written as <math>2 \times 2 \times 2 \times 2 \times 5</math></li></ul>
<b>Friday</b>	<ul style="list-style-type: none"><li>104 can be written as <math>2^3 \times 13</math></li><li>40 can be written as <math>2 \times 2 \times 2 \times 5</math></li></ul>

## The Accusation

<b>Who</b>	
<b>Where</b>	
<b>When</b>	