

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 4th square number
- 20 has 6 factors
- 40 is a multiple of 8



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The maths teacher made the following statements:

- 12 has 6 factors
- 1 is a prime number
- 21 is the 6th 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



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Where? The murder was committed at one of the locations below, but which one? It happened where TWO of the calculations are correct.		
The maths classroom		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
The dining hall		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
The gym		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
The playing fields		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:		
Monday	 72 can be written as 2 x 2 x 2 x 3 x 3 104 can be written as 2 + 2 + 2 + 13 	
Tuesday	 80 can be written as 2⁴ x 5 72 can be written as 3³ x 2² 	
Wednesday	 104 can be written as 2 x 2 x 2 x 13 40 can be written as 2⁴ x 5 	
Thursday	 72 can be written as 2 x 2 x 3 x 3 80 can be written as 2 x 2 x 2 x 2 x 5 	
Friday	 104 can be written as 2³ x 13 40 can be written as 2 x 2 x 2 x 5 	
The Accusation		
Who		
Where		

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When