Maths Tuesday 28 April 2020

| 1 | Tahil has 32 football cards that he is giving away to his friends. <br> He shares them pevenly. <br> How many friends could Tahil have? |
| :---: | :---: |
| 2 | Use the clues to work out the number: <br> - It is greater than 10 <br> - It is an odd number <br> - It is not a primer number <br> - It is less than 25 <br> - It is a factor of 60 |
| 3 | Clare's age is a multiple of 7 and less than The answers are 21 or 77. <br> a multiple of 8 <br> I don't understand the question with those answers. <br> Can one of you explain it to me? Or do you agree  <br> How old it Clare? with me that this is an idiotic question? If so, why is <br> it impossible to answer? <br> Is this the only possibility?  |
| 4 | Nancy is double her sister's age. <br> List the multiples of 7 between 20 and 50 ... Which one is double of the other ...? <br> They are both older than 20 and younger than 50 <br> They are both multiples of 7 <br> Work out their ages. |
| 5 | Train starts running from Leeds to York <br> at Tam. If you can't work it out mathematically, you could <br> create a timeline and mark the time intervals of 5 <br> The last trains leaves at midnight. and 12 minutes. Then you can see how often they <br> overlap in an hour. <br> Platform 1 has a train leaving from it <br> every 12 minutes. <br> Platform 2 has one leaving from it every <br> 5 minutes. Then work out how many hours there are in which <br> trains are leaving ... <br> How many times in the day would there <br> be a train leaving from both platforms at <br> the same time?  |
| 6 | Use symbols $\leq, \geq$ or $=$ to make these statements correct <br> 3 cubed 6 squared <br> 8 squared 4 cubed <br> 11 squared 5 cubed |
| 7 | The sume of two prime numbers is 36 . Which numbers are they? <br> ext: Find all possibilities. |

## Answers

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| 1 | Tahil has 32 football cards that he is giving away to his friends. <br> He shares them evenly. <br> How many friends could Tahil have? | 1, 2, 4, 8 or 16 friends. |
| :---: | :---: | :---: |
| 2 | Use the clues to work out the number: <br> - It is greater than 10 <br> - It is an odd number <br> - It is not a primer number <br> - It is less than 25 <br> - It is a factor of 60 | 15 |
| 3 | Clare's age is a multiple of 7 and less than a multiple of 8 <br> How old it Clare? <br> Is this the only possibility? | 21 or 77 |
| 4 | Nancy is double her sister's age. <br> They are both older than 20 and younger than 50 <br> They are both multiples of 7 <br> Work out their ages. | 21 or 77 |
| 5 | Train starts running from Leeds to York at 7 am . <br> The last trains leaves at midnight. <br> Platform 1 has a train leaving from it every 12 minutes. <br> Platform 2 has one leaving from it every 5 minutes. <br> How many times in the day would there be a train leaving from both platforms at the same time? |  |
| 6 | Use symbols $\leq, \geq$ or $=$ to make these statements correct <br> 3 cubed 6 squared <br> 8 squared 4 cubed <br> 11 squared 5 cubed |  3 cubed $=3 \times 3 \times 3=3^{3}=27$ <br> 6 squared $=36$ <br> $=$ 8 squared $=64$ <br> 4 cubed $=64$  <br> $<$ 11 squared $=121$ <br> 5 cubed $=125$  |
| 7 | The sume of two prime numbers is 36 . Which numbers are they? <br> ext: Find all possibilities. | 5 and 31 7 and 29 13 and 23 17 and 19 |

