

Topic 15 - Factors & Multiples

1	How many whole numbers between 1 and 100 are multiples of 3, but are not multiples of 8?		
	You should include 3 itself.		
	A	21	
	В	25	
	С	27	
	D	29	
	E	33	



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Kim and Jamie each think of a different whole number that is greater than zero and less than 50.

Kim's number is a multiple of 5.

Jamie's number is an even number which is a multiple of 7.

What is the difference between the **largest** possible value of Kim's number and the **smallest** possible value of Jamie's number?

- **A** 31
- **B** 36
- **C** 38
- **D** 39
- **E** 43



3	The numbers 4 and 40 have highest common factor 4 and lowest common multiple 4				
	A s mu	A second pair of numbers also has highest common factor 4 and lowest common multiple 40.			
	Wh	nat is the sum of the second pair of numbers?			
	A	13			
	В	14			
	С	24			
	D	28			
	Ε	48			



Four of the numbers on the cards have the same remainder when divided by 5:



Which number has a different remainder?

- **A** 33
- **B** 43
- **C** 68
- **D** 83
- **E** 119



When an even number is divided by 8, what are all of the possible remainders?

- **A** 2
- **B** 2, 4
- **C** 2, 4, 6
- **D** 1, 3, 5, 7
- **E** 1, 2, 3, 4, 5, 6, 7

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6	Mateo is thinking of a whole number.		
	If he multiplies his number by 3, the answer is less than 30.		
	If he multiplies his number by 6, the answer is greater than 40.		
	There is more than one number Mateo could be thinking of.		
	What is the sum of all of the numbers Mateo could be thinking of?		
	A 7		
	B 13		
	C 15		
	D 17		
	E 24		

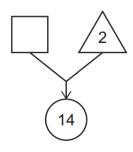


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The diagram below follows these rules:

- Multiply the number in the square by 4.
- Multiply the number in the triangle by 3.
- Find the difference between these two results and write it in the circle.

The number in the square is greater than one.



What is the number in the square?

- **A** 2
- **B** 4
- **C** 5
- **D** 8
- **E** 20



Three different numbers are chosen from the numbers 3, 5, 6 and 8.

They are then added together.

Which of these statements is/are correct?

- 1 The total cannot be a multiple of 8.
- **2** The total can be a multiple of 3.
- **3** The total is always odd.
- A none of them
- B statement 1 only
- C statement 2 only
- **D** statement 3 only
- E statements 2 and 3 only

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Answer Key

