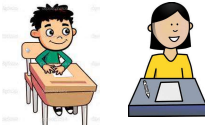




Maths Y6/Y7: Consecutive numbers

Name

Date



Information for Students: Complete all tasks in the order that they are set.



Information for Parents/Guardians: Ways in which you can support your child.

- Helping students to access the internet.
- Checking that students are progressing through the tasks and understand the evidence that they are reading.
- Read the work that your child has produced and discuss with them how they have arrived at their conclusions.



Task 1: Consecutive Numbers

Part A is preparation for the task. Answer all the questions.

Part A:

Using a dictionary, or the internet find out what the word **Consecutive** means.

1) Write down what the word **Consecutive** means.

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Look at the examples below:

$$5 = 2 + 3$$

$$12 = 3 + 4 + 5$$

$$90 = 29 + 30 + 31$$

$$25 = 3 + 4 + 5 + 6 + 7$$

2) Write down what you notice about the numbers that are added together?

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Part B is about adding together Consecutive numbers.

Part B:

- 1) We have seen that $5 = 2 + 3$.
Can you find two consecutive numbers that add up to 7?
Write them down below.

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- 2) Slightly harder. Can you find 3 consecutive numbers that add up to 6
Write them down below.

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- 3) Impossible!! It is impossible to make 8 by adding consecutive numbers. Try below.

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Part C is about completing the consecutive number challenge.

Part C:

- 1) You have to find a way of making the numbers 1-50 in the following table. (The numbers 5, 12 and 25 are done for you above). We've already seen that some are impossible, e.g. the number 4. However only 5 of the numbers up to 50 are impossible.

How many of the 45 numbers that are possible can you find?
Aim for at least 40!!!

Use the space below for any working out?

Consecutive Number Challenge

1=	26=
2=	27=
3=	28=
4=	29=
5=	30=
6=	31=
7=	32=
8=	33=
9=	34=
10=	35=
11=	36=
12=	37=
13=	38=
14=	39=
15=	40=
16=	41=
17=	42=
18=	43=
19=	44=
20=	45=
21=	46=
22=	47=
23=	48=
24=	49=
25=	50=

Part D is about writing down any number patterns in the table you have spotted.

Part D:

- 1) Look at all the numbers that are impossible to make.
Write below about anything you notice about these numbers.



Reflection

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- 2) Look at the odd numbers in the table. Is there a pattern to how these numbers are made from consecutive numbers? Describe the pattern below.

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- 3) Have you spotted any other patterns in the table? Describe them below.

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4) Is it possible to make some numbers more than one way? Give any examples below.

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5) Did you find a way of finding any number using consecutive numbers quickly? Describe this method below.

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