

Canonbury Home Learning

Year 2/3 Maths

Steppingstone activity - **ANSWERS**

Lesson 3 – 15.07.2020

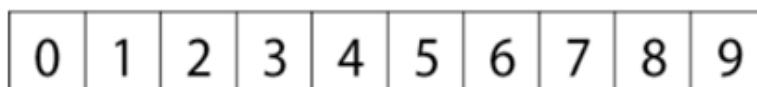
LO: Problem Solving

Success Criteria:



1. Read the explanation – Can you arrange the digits 0 – 9 to make 2-digit numbers as close to the targets as possible?
2. Make your own number cards 0 – 9, that way you can play around with different amounts until you feel you have the best one for each target
3. Write down your best solution in your work book

You have a set of the digits from 0 - 9.



Can you arrange these digits in the five boxes below to make two-digit numbers as close to the targets as possible? You may use each digit once only.

largest even number	<input type="text"/>	<input type="text"/>	→
largest odd number	<input type="text"/>	<input type="text"/>	→
smallest odd number	<input type="text"/>	<input type="text"/>	→
largest multiple of 5	<input type="text"/>	<input type="text"/>	→
number closest to 50	<input type="text"/>	<input type="text"/>	→

Various answers including:

<u>Option 1</u>	<u>Option 2</u>	<u>Option 3</u>
98	86	92
75	97	73
13	01	15
60	45	80
42	32	46

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Success Criteria:

1. Begin with Task 1 – try to use a systematic method (using a pattern to make sure you get all the possible answers) and find as many ways as you can
2. Then have a go at Task 2 – use a systematic method to find as many ways as possible

Task 1

1. There are 10 different ways to choose three cards with a total of 12:

0, 3, 9 1, 2, 9 2, 3, 7 3, 4, 5

0, 4, 8 1, 3, 8 2, 4, 6

0, 5, 7 1, 4, 7 1, 5, 6

2. There are 9 different ways to choose four cards with a total of 12:

0, 1, 2, 9 0, 2, 3, 7 1, 2, 3, 6

0, 1, 3, 8 0, 2, 4, 6 1, 2, 4, 5

0, 1, 4, 7 0, 3, 4, 5 0, 1, 5, 6

3. No.

Task 2

3 Tripods (9 legs) and 7 Bipods (14 legs)

or

5 Tripods (15 legs) and 4 Bipods (8 legs).