## Number boards for mini mental sessions

- Feel free to edit the document as you wish and customise boards and questions to suit your learners levels
- Print and laminate for extra sturdiness.
- Ideal for working in pairs and getting learners to talk about their strategies for solving problems
- Also included: large size version for whole class activity (includes 2 different sets of questions)
- Different size grids cater for different learner levels



3 x 3 grid





4 x 4 grid



Work with a partner. Take turns to answer a question and explain your answer to your partner.

15	4	20	<ul> <li>Which is the largest number?</li> <li>Which is the smallest number?</li> <li>Can you predict which row has the highest total?</li> <li>Add together the numbers in 3rd row. What strategy did</li> </ul>	
6	5	8	you use? Which two numbers add up to 20? Find one number that is half of another?	
12	30	10		

Work with a partner. Take turns to answer a question and explain your answer to your partner.						
24	8	12	<ul> <li>Which is the largest number?</li> <li>Which is the smallest number?</li> <li>Find one number that is double another</li> <li>Can you predict which column has the lowest total?</li> </ul>			
22	11	3	<ul> <li>Halve each number in row 1. What strategy did you use?</li> <li>Find one number that is half of another</li> <li>Which numbers are bigger than this?</li> </ul>			
2	5	6				



Work with a partner.

Take turns to answer a question and explain your answer to your partner.

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15	35	20	<ul> <li>Which is the largest number?</li> <li>Which is the smallest number?</li> <li>Can you predict which row has the highest total?</li> <li>Add together the numbers in first row. What strategy did</li> </ul>	
6	14	8	<ul> <li>you use?</li> <li>Which three numbers total 38.</li> <li>Are there other numbers that total 38? You can add together as many numbers as you like to total 38.</li> </ul>	
12	40	10	<ul> <li>What is the difference between the largest and the smallest number?</li> <li>Find one number that is half of another?</li> <li>Make each number in column 1 bigger by 8</li> </ul>	

Work with a partner. Take turns to answer a question and explain your answer to your partner.						
45	9	12	<ul> <li>Which is the largest number?</li> <li>Which is the smallest number?</li> <li>Find one number that is double another</li> <li>Can you predict which column has the lowest total?</li> </ul>			
24	22	31	<ul> <li>Halve each number in row 3. What strategy did you use?</li> <li>Make each number in row 2 bigger by 12</li> <li>Find one number that is half of another</li> <li>What is the middle number?</li> </ul>			
2	16	62	Which numbers are bigger than this?			

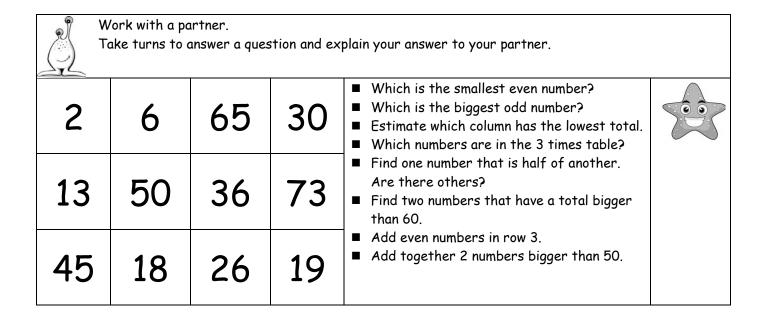
	Work with a partner. Take turns to answer a question and explain your answer to your partner.						
33	7	6	<ul> <li>Which is the largest number?</li> <li>Which is the smallest number?</li> <li>Can you predict which row has the lowest total?</li> <li>Add together the numbers in third row. What strategy</li> </ul>				
47	31	5	<ul> <li>did you use?</li> <li>Which three numbers total 34. Are there other numbers that total 34? You can add together as many numbers as you like to total 34.</li> </ul>				
24	8	35	<ul> <li>What is the total of the largest and the smallest number?</li> <li>Double each number in column 2. What strategy did you use?</li> </ul>				

Work with	a partner.
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Take turns to answer a question and explain your answer to your partner.

2L					
15	35	20	50	<ul> <li>Which is the largest number?</li> <li>Which is the smallest number?</li> <li>Can you predict which row has the highest total?</li> </ul>	
6	14	8	2	<ul> <li>Add together the numbers in first row. What strategy did you use?</li> <li>Add together 2 odd numbers. Is the answer odd or even? Why do you think this</li> </ul>	
12	40	10	32	<ul> <li>is?</li> <li>Find one number that is half of another?</li> <li>Find two numbers that have a total between 65 and 75</li> </ul>	

Work with a partner. Take turns to answer a question and explain your answer to your partner.						
25	45	30	40	<ul> <li>Which is the largest even number?</li> <li>Which is the smallest odd number?</li> <li>Estimate which row has the lowest total?</li> <li>Which numbers are multiples of 5?</li> </ul>		
8	18	9	3	<ul> <li>Find one number that is double of another?</li> <li>Find two numbers that have a total smaller than 20.</li> <li>Subtract the smallest number from the</li> </ul>		
16	28	21	75	<ul> <li>largest number.</li> <li>Add together 3 even numbers. Is the answer odd or even? Why do you think this is?</li> </ul>		



Work with a partner.

Take turns to answer a question and explain your answer to your partner.

2L					
11	47	1	9	<ul> <li>Find three numbers that have a total between 100 and 140. Are there more?</li> <li>Subtract the smallest number from the largest</li> </ul>	
29	27	16	28	<ul> <li>number.</li> <li>Find the number that is 4 times as big as another</li> <li>Find two numbers with a difference of 16.</li> </ul>	
50	5	8	44	<ul> <li>Find numbers that are in the four times table.</li> </ul>	
38	19	32	33		

	Work with a partner. Take turns to answer a question and explain your answer to your partner.					
16	83	78	5	<ul> <li>Find three numbers that have a bigger total than 200. Are there more?</li> <li>Subtract the smallest odd number from the largest</li> </ul>		
94	25	76	15	even number. Find the number that is 30 smaller than another. Are there more?		
24	4	2	65	<ul> <li>Round down the biggest number to the nearest 10.</li> <li>Find two numbers with a difference of 18. Are there more?</li> </ul>		
51	13	50	46	<ul> <li>Add up the second row of numbers.</li> <li>Which numbers over 50 are multiples of 2?</li> </ul>		

	Work with a partner. Take turns to answer a question and explain your answer to your partner.							
24	80	4	79	<ul> <li>Find three numbers that have a total bigger than 260. Are there more?</li> <li>Find the 2 smallest numbers. Multiply these</li> </ul>				
50	9	23	90	<ul> <li>together.</li> <li>Find numbers that are smaller than this answer.</li> <li>Find the number that is 30 smaller than another. Are</li> </ul>				
86	55	98	42	<ul><li>there more?</li><li>Find two numbers with a difference of exactly 70.</li><li>Are there more?</li></ul>				
28	75	15	99	<ul> <li>Which numbers over 40 are multiples of 5 and 10?</li> <li>Round up the biggest number to the nearest 10.</li> </ul>				

	Column 1	Column 2	Column 3	Column 4
Row 1	16	88	75	5
Row 2	44	25	32	15
Row 3	64	4	2	35
Row 4	8	11	50	22

Questions

- Can you predict which row has the highest total?
- Are there any 2 numbers which give an answer of 10 when you subtract them?
- Are there any numbers which are 25 more than another?
- Find one number that is double another? If you double that again, is the answer in the grid? Keep going
- Double each number in column 2. What strategy did you use for the bigger numbers?

OR

- Add 1000 to each number in Column 3. Write them down
- Add together all the numbers that are multiples of
   5 (in the 5 x table). How did you do it?
- Find three numbers that have a bigger total than 200. What's a quick way of doing this?
- Add together the numbers in the last row. What strategy did you use?