#### Addition mental strategies – look for a ten



Let's warm up with some addition grids. Write these answers as fast as you can by counting on:







Adding more than two numbers together is easier if we look for a ten. Circle the numbers that add to 10 first, then add what is left:



3 Circle the numbers that make 10. Look for sets going across and down. One set has been circled for you. How many more can you find?



Look for a ten and change the order of the numbers in each addition problem to make it faster to add.

**a** 4 + 5 + 3 + 5 + 6

**b** 9 + 3 + 7 + 1 + 5



1



Addition and Subtraction

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### Addition mental strategies – look for patterns

Number patterns are useful. You can build on basic addition facts. Add 10 each time: Add 100 each time: 2 10 10 а а b 15 b 15 7 7 С С Use patterns to complete this addition table: 3 3 + 5 = 30 + 50 = 300 + 500 = а 60 + 20 =6 + 2 =600 + 200 =b 4 + 1 =40 + 10 =400 + 100 =С 7 + 3 = 70 + 30 = 700 + 300 = d

4 Complete this addition trail:





#### **Addition and Subtraction**

#### Addition mental strategies – doubles and near doubles



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#### Addition mental strategies – doubles and near doubles



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## Addition mental strategies – bridge to ten



Look carefully at the first set of ten frames. Bridge to ten on the second set and complete the addition.



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## Addition mental strategies – bridge to ten





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### Addition mental strategies – bridge to ten

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3 Use t

Use the number lines to bridge to ten. Fill in the missing numbers each time.



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## Addition mental strategies – jump strategy



Practise jumping along the number line in tens:



2 Add these using the jump strategy. Show your working on each number line:





## Addition mental strategies – split strategy version 1

When adding large numbers in our heads, it can be easier to split one of the numbers into parts and add each part separately.

$$57 + 46 \xrightarrow{40} 57 + 40 = 97 \longrightarrow 97 + 6 = 103$$

Practise separating these numbers into tens and ones. The first one has been done for you.





c 65 d



**3** Use the split strategy with these problems:



**Addition and Subtraction** 



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### Addition mental strategies – split strategy version 2

Here is another way to use the split strategy. 42 + 32 = (4 tens + 3 tens) + (2 ones + 2 ones) = 7 tens + 4 ones = 74



#### Use either version of the split strategy to complete this table:

+	65	85	36	23	41
12					
34					



2

# Addition mental strategies – word problems

- 1 Solve these word problems using either the jump or the split strategies. Show all your working.
  - **a** Mitch and Anna held a lemonade stall over the weekend. They sold 25 cups on Saturday and 18 cups on Sunday. How many cups did they sell altogether?

**b** I practised my guitar for 48 minutes before school and 34 minutes after school. How many minutes did I practise altogether?

**c** Charlotte received £15 for her birthday from her grandmother. She added this to her savings account which has £53. How much does Charlotte have now?



#### Double or nothing



This is a game for two players. You will each need two copies of the set of cards below. So, a total of four pages per pair. Cut out your cards, then join them so that you have a deck of 36 cards.



apply



Shuffle the cards well and place face down in the centre. Player 1 turns over two cards and calls out the total. If the cards are a double (e.g. 4 and 4) or a near double and the total they have called out is correct, Player 1 keeps the cards. (For the cards to be a near double, there needs to be a difference of 1, e.g. 3 + 4, 6 + 5.) If the cards are not a double or near double they are put to one side. Player 2 repeats these steps. Continue taking turns until there are no cards left. The winner is the player with the most cards.





#### Two card sum

Getting

ready

#### This is a game for two players. You will each need a copy of the set of cards below. Cut out your cards then join them so that you have a deck of 24 cards.



apply



Shuffle the cards well and place face down in the centre. Each player turns over two cards and calls out the total. The player with the largest total wins that round and takes all four cards. If players have the same answer, they tie, no one wins the round and these cards are put aside. Continue taking turns until there are no cards left. The winner is the player who wins the most rounds.



**Addition and Subtraction** 





What to do

This is a game for two players. You will need four dice and a copy of this page to record your totals.



apply

The aim of this game is to reach a total of 50. Each player takes a turn to roll a die four times and records the total in a row in one of the tables below. If your running score goes over 50, you strike out. You may choose to freeze after the first or second roll if you are getting close to 50. Take turns until the table is full. The player who finishes the round closest to 50, but not over 50, scores 5 points. The player who finishes the round exactly on 50, scores 10 points.

#### Player 1

ROUND 1			ROUND 2		ROUND 3	
Rolled numbers	Running total		Rolled numbers	Running total	Rolled numbers	Running total
		]				
		]				
		]				

#### Player 2

ROUND 1			
Rolled numbers	Running total		

ROUND 2		
Rolled numbers	Running total	

ROUND 3		
Rolled numbers	Running total	

