



# MATHEMATICS



**N.S. Yr. 1 P.40**

**Adding or subtracting crossing the tens**

## Equipment

Paper, pencil, ruler

# MathSphere

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## **Concepts**

Once adding single digits up to an answer of 10 has been securely grasped the next step is to add two single numbers which cross the tens. For example  $8 + 7$ .

A good way to do this mentally is to look for the number which will make 10 and split the seven accordingly.

$$\text{eg } 8 + 7 = 8 + 2 + 5 = 10 + 5 = 15$$

This is more difficult to explain in words than to carry out as a mental calculation!

In a similar way, when adding a single digit to a tens number it is often easier to split to make 20 and then add the rest on.

$$\text{eg } 15 + 7 = 15 + 5 + 2 = 20 + 2 = 22$$

Other strategies will also come into play – the add 9 or 19 method, so children should not become too dependent on one method when working mentally.

Adding two digits crossing the tens

When doing these look for numbers that make 10.

$$7 + 6 = 7 + 3 + 3 = 10 + 3 = 13$$

1.  $6 + 7 =$

2.  $4 + 8 =$

3.  $5 + 6 =$

4.  $6 + 9 =$

5.  $7 + 6 =$

6.  $8 + 7 =$

0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20

Adding two digits crossing the tens

When doing these look for numbers that make 10.

$$5 + 8 = 5 + 5 + 3 = 10 + 3 = 13$$

1.  $2 + 9 =$

2.  $4 + 7 =$

3.  $5 + 9 =$

4.  $6 + 5 =$

5.  $7 + 8 =$

6.  $8 + 6 =$

0  
1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20

**Adding two digits crossing the tens**

1.  $3 + 9 =$

2.  $9 + 7 =$

3.  $6 + 6 =$

4.  $7 + 4 =$

5.  $8 + 6 =$

6.  $9 + 5 =$

7.  $3 + 8 =$

8.  $7 + 9 =$

9.  $9 + 3 =$

10.  $8 + 8 =$

**Adding two digits crossing the tens**

1.  $9 + 2 =$

2.  $8 + 5 =$

3.  $6 + 8 =$

4.  $4 + 9 =$

5.  $5 + 7 =$

6.  $8 + 9 =$

7.  $9 + 6 =$

8.  $8 + 4 =$

9.  $9 + 8 =$

10.  $8 + 3 =$

Adding two digits crossing the tens

1.  $9 + \boxed{\phantom{00}} = 16$

2.  $8 + \boxed{\phantom{00}} = 14$

3.  $7 + \boxed{\phantom{00}} = 11$

4.  $6 + \boxed{\phantom{00}} = 13$

5.  $4 + \boxed{\phantom{00}} = 13$

6.  $7 + \boxed{\phantom{00}} = 15$

7.  $9 + \boxed{\phantom{00}} = 17$

8.  $8 + \boxed{\phantom{00}} = 11$

9.  $5 + \boxed{\phantom{00}} = 11$

10.  $9 + \boxed{\phantom{00}} = 14$

**Adding two digits crossing the tens**

1.  $4 + \boxed{\phantom{00}} = 11$

2.  $5 + \boxed{\phantom{00}} = 13$

3.  $7 + \boxed{\phantom{00}} = 12$

4.  $9 + \boxed{\phantom{00}} = 13$

5.  $5 + \boxed{\phantom{00}} = 12$

6.  $7 + \boxed{\phantom{00}} = 14$

7.  $8 + \boxed{\phantom{00}} = 13$

8.  $7 + \boxed{\phantom{00}} = 16$

9.  $6 + \boxed{\phantom{00}} = 12$

10.  $8 + \boxed{\phantom{00}} = 17$



**Add a single digit to a teens number, crossing 20****Adding two digits crossing the tens**

When doing these look for numbers that make whole tens.

$$15 + 8 = 15 + 5 + 3 = 20 + 3 = 23$$

1.  $14 + 8 =$

2.  $16 + 6 =$

3.  $18 + 5 =$

4.  $17 + 7 =$

5.  $19 + 4 =$

6.  $13 + 9 =$

10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

**Add a single digit to a teens number, crossing 20****Adding two digits crossing the tens**

When doing these look for numbers that make whole tens.

$$14 + 8 = 14 + 6 + 2 = 20 + 2 = 22$$

1.  $15 + 7 =$

2.  $18 + 8 =$

3.  $19 + 6 =$

4.  $13 + 8 =$

5.  $19 + 8 =$

6.  $17 + 6 =$

10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30

**Adding two digits crossing the tens**

1.  $19 + 2 = \boxed{\phantom{00}}$

2.  $14 + 9 = \boxed{\phantom{00}}$

3.  $16 + 7 = \boxed{\phantom{00}}$

4.  $17 + 4 = \boxed{\phantom{00}}$

5.  $16 + 9 = \boxed{\phantom{00}}$

6.  $17 + 8 = \boxed{\phantom{00}}$

7.  $14 + 7 = \boxed{\phantom{00}}$

8.  $19 + 5 = \boxed{\phantom{00}}$

9.  $19 + 3 = \boxed{\phantom{00}}$

10.  $15 + 8 = \boxed{\phantom{00}}$

**Adding two digits crossing the tens**

1.  $12 + 9 =$

2.  $19 + 6 =$

3.  $16 + 8 =$

4.  $18 + 7 =$

5.  $17 + 5 =$

6.  $15 + 7 =$

7.  $16 + 5 =$

8.  $18 + 6 =$

9.  $19 + 9 =$

10.  $15 + 6 =$