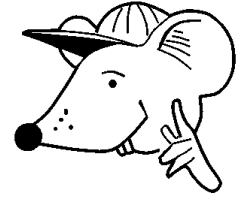# MATHEMATICS

Y2 Addition and Subtraction
2250
Understand that more than two numbers can be added together.

Equipment

Paper, pencil.
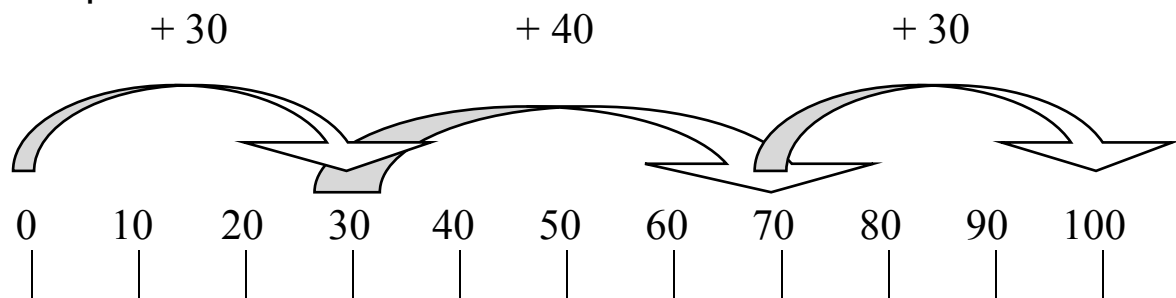Number line.

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Concepts

In year 1 children will meet addition of three numbers totalling up to 10.
In year 2 the totals will increase up to 100, when using apparatus. At first totals up to 20 can be explored and later whole tens up to 100 as shown in the diagram below.
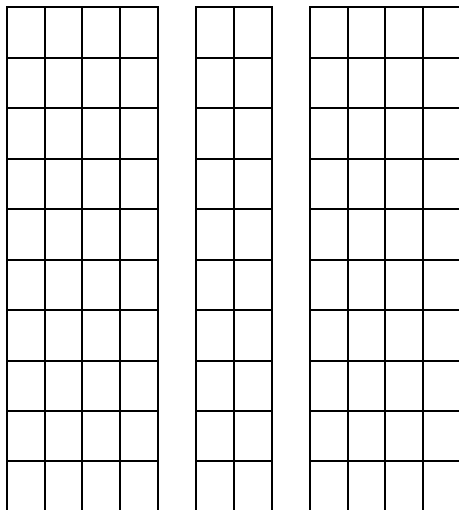
For example:

$$+ \, 30 \qquad\qquad + \, 40 \qquad\qquad + \, 30$$

| 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

$$30 \; + \; 40 \; + \; 30 \; = \; 100$$

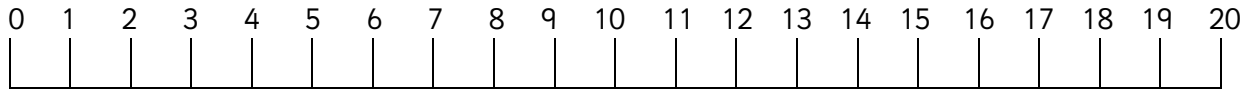Other very useful ways include using bricks or unifix and finding three sets of rods or sets of ten which make 100

e.g. 4 ten rods + 2 ten rods + 4 ten rods

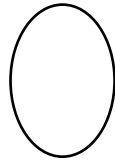$$40 \quad + \quad 20 \quad + \quad 40 \quad = 100$$

Three hops to twenty

Take 3 hops along these number lines to make 20.

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

1.

☐ + ◯ + ⬠ = 20

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

2.

☐ + ◯ + ⬠ = 20

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

3.

☐ + ◯ + ⬠ = 20
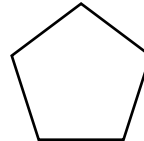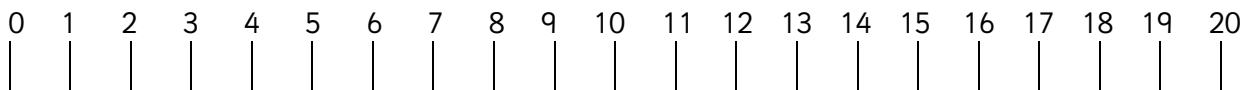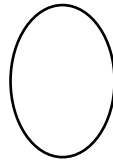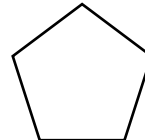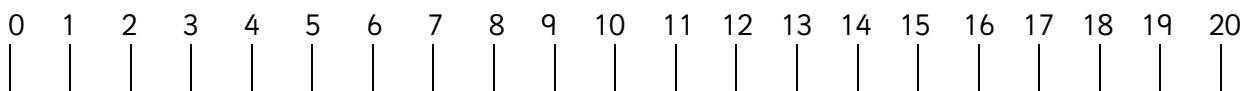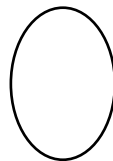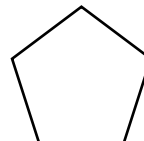
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
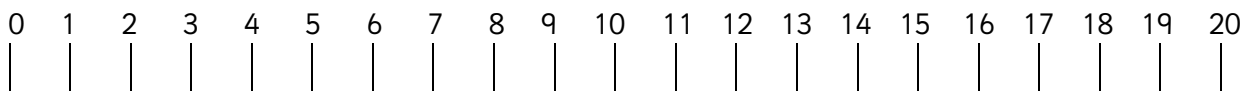
4.
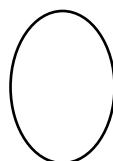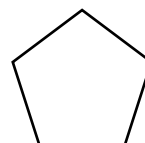
☐ + ◯ + ⬠ = 20

How many ways?

How many ways can you make 20 by adding three numbers?
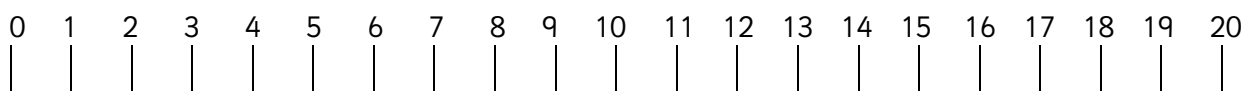
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

☐ + ⬭ + ⬠ = 20

☐ + ⬭ + ⬠ = 20

☐ + ⬭ + ⬠ = 20

☐ + ⬭ + ⬠ = 20

☐ + ⬭ + ⬠ = 20

☐ + ⬭ + ⬠ = 20

☐ + ⬭ + ⬠ = 20

Find the missing number to make the number sentences true.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
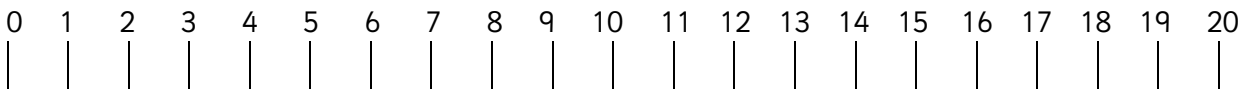
1. $4 + 5 + \boxed{} = 20$

2. $5 + 2 + \boxed{} = 20$

3. $6 + 6 + \boxed{} = 20$

4. $7 + 5 + \boxed{} = 20$

5. $8 + 6 + \boxed{} = 20$

6. $9 + 4 + \boxed{} = 20$

7. $7 + 6 + \boxed{} = 20$

8. $4 + 9 + \boxed{} = 20$

Find the missing number to make the number sentences true.

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
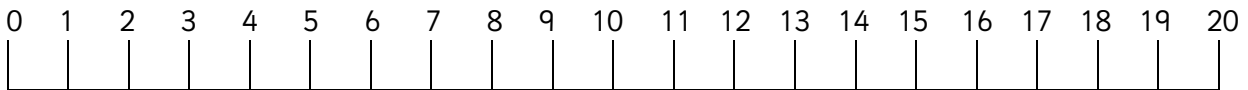
1. $11 + 3 + \boxed{} = 20$

2. $12 + 3 + \boxed{} = 20$

3. $10 + 5 + \boxed{} = 20$

4. $14 + 2 + \boxed{} = 20$

5. $11 + 1 + \boxed{} = 20$

6. $13 + 4 + \boxed{} = 20$

7. $12 + 5 + \boxed{} = 20$

8. $10 + 7 + \boxed{} = 20$

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Try doing these sums.
They are all adding three numbers.
Look out for numbers that make ten
when you add them:

eg 2 + 8 or 4 + 6

1. 4 + 5 + 6 = [ ]   2. 4 + 6 + 8 = [ ]

3. 3 + 5 + 7 = [ ]   4. 2 + 4 + 8 = [ ]

5. 7 + 1 + 5 = [ ]   6. 8 + 3 + 4 = [ ]

7. 1 + 6 + 9 = [ ]   8. 7 + 2 + 3 = [ ]

9. 5 + 5 + 5 = [ ]   10. 9 + 4 + 1 = [ ]

11. 6 + 6 + 4 = [ ]   12. 8 + 6 + 2 = [ ]

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Try doing these sums.
They are all adding three numbers.
Look out for numbers that make ten when you add them:

eg   3 + 7 or 5 + 5
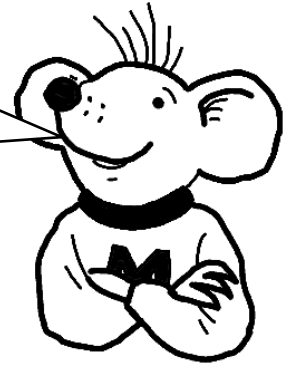
1. $5 + 6 + 7 =$

2. $3 + 7 + 9 =$

3. $4 + 6 + 8 =$

4. $3 + 5 + 7 =$

5. $8 + 2 + 6 =$

6. $9 + 2 + 3 =$

7. $2 + 8 + 9 =$

8. $8 + 1 + 9 =$

9. $6 + 5 + 5 =$

10. $8 + 9 + 1 =$

11. $7 + 6 + 4 =$

12. $9 + 6 + 4 =$

Adding three numbers

6   8   5   4

Take any three numbers.
Add them up.
What different totals can you make?

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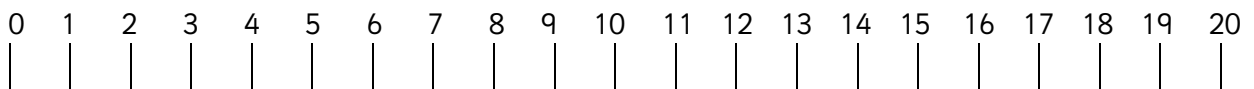
Adding three numbers

<div>

9

5

8

7

</div>
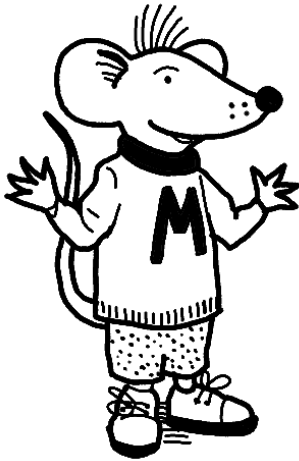
Take any three numbers.
Add them up.
What different totals can you make?

0	1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20	
21	22	23	24	25	26	27	28	29	30	

Adding three numbers

4   9   6   8

Take any three
numbers.
Add them up.
What different totals
can you make?

0	1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

Adding three numbers

Try working out these addition sums.

1. What is the sum of 2, 4 and 8 ?

2. What is the sum of 5, 6 and 9 ?

3. Add 5, 2 and 8.

4. Add 7, 5 and 6.

5. Find the total of 4, 9 and 8.

6. Find the total of 9, 8 and 8.

7. How many altogether are 7, 6 and 8 ?

8. How many altogether are 8, 9 and 5 ?

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Adding three numbers

Try working out these addition sums.

1. What is the sum of 3, 5 and 7 ?

2. What is the sum of 4, 7 and 10 ?

3. Add 6,   6 and 9.

4. Add 8, 5 and 11.

5. Find the total of   6, 12 and 8.
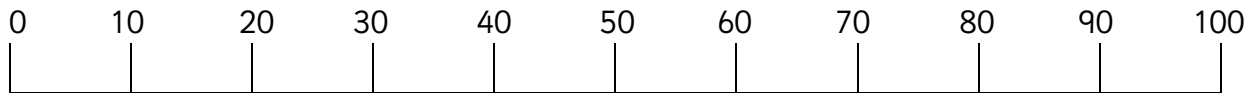
6. Find the total of   8, 8 and 12.

7. How many altogether are   3, 17 and 8 ?

8. How many altogether are   4, 14 and 6 ?

Make 100

How many ways can you make   100   by adding three numbers?

```
0      10      20      30      40      50      60      70      80      90     100
```

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

How many ways?

How many ways can you make ☐ by adding three numbers?

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

☐ + ◯ + ⬠ =

Answers

Page 3
3 numbers totalling 20

Page 4
3 numbers totalling 20

Page 5
1. 11   **2.** 13   **3.** 8   **4.** 8   **5.** 6   **6.** 7   **7.** 7   **8.** 7

Page 6
1. 6   **2.** 5   **3.** 5   **4.** 4   **5.** 8   **6.** 3   **7.** 3   **8.** 3

Page 7
1. 15   **2.** 18   **3.** 15   **4.** 14   **5.** 13   **6.** 15   **7.** 16   **8.** 12   **9.** 15   **10.** 14   **11.** 16   **12.** 16

Page 8
1. 18   **2.** 19   **3.** 18   **4.** 15   **5.** 16   **6.** 14   **7.** 19   **8.** 18   **9.** 16   **10.** 18   **11.** 17   **12.** 19

Page 9
19, 18, 17, 15

Page 10
24, 22, 21, 20

Page 11
23, 21, 19, 18

Page 12
1. 14   **2.** 20   **3.** 15   **4.** 18   **5.** 21   **6.** 25   **7.** 21   **8.** 22

Page 13
1. 15   **2.** 21   **3.** 21   **4.** 24   **5.** 26   **6.** 28   **7.** 28   **8.** 24