



MATHEMATICS



N.S. Yr. 2 P.31

Know addition and subtraction facts

Equipment

Paper, pencil, ruler
Number lines, digit cards useful

MathSphere

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Concepts

Building on the addition and subtraction work up to 5 which will be covered in year 1, the next step is to extend this to addition and subtraction up to 10.

Children will be expected to know these facts and have rapid recall of them. This is the foundation of much of the maths to come.

As well as this it is also expected that children will be well acquainted with using doubling to aid addition. In year 2 this involves doubling all numbers up to 15 and then doubling multiples of 5 and 10 up to 50.

So, for example a child should be able to respond quite quickly to the question what is 25 plus 25?

In year 1 it is expected that pairs of numbers that add up to 10 will be learnt. In year 2 this is extended to pairs of numbers that add up to 20.

Also children are expected to know by heart pairs of whole tens (or multiples of ten) which make 100.

These facts will only be learnt if there is constant repetition of them, usually mentally. A lot can be done with digit cards or playing cards, picking pairs of numbers out.

See also p 2053, doubling and halving, for further examples.

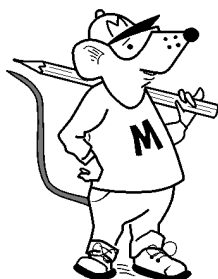
**Adding numbers up to ten - speedy racing**

Ready for some speedy work.?

Ask an adult to time you, or set you a time to see how many you can do in a minute...or two minutes...or three minutes or



<i>SPEEDY RACE 1</i>	<i>SPEEDY RACE 2</i>
1. $4 + 8 =$	1. $3 + 6 =$
2. $5 + 4 =$	2. $7 + 2 =$
3. $2 + 6 =$	3. $0 + 7 =$
4. $7 + 7 =$	4. $5 + 4 =$
5. $8 + 0 =$	5. $2 + 8 =$
6. $1 + 5 =$	6. $6 + 9 =$
7. $9 + 2 =$	7. $1 + 1 =$
8. $6 + 3 =$	8. $4 + 5 =$
9. $0 + 9 =$	9. $8 + 0 =$
10. $3 + 1 =$	10. $9 + 3 =$

Adding numbers up to ten - speedy racing

See if you are getting
quicker today!!
It is a new day!

<i>SPEEDY RACE 3</i>	<i>SPEEDY RACE 4</i>
1. $5 + 6 =$	1. $9 + 3 =$
2. $9 + 2 =$	2. $2 + 7 =$
3. $0 + 5 =$	3. $8 + 6 =$
4. $2 + 1 =$	4. $1 + 5 =$
5. $6 + 8 =$	5. $7 + 4 =$
6. $3 + 3 =$	6. $0 + 2 =$
7. $8 + 9 =$	7. $6 + 1 =$
8. $7 + 4 =$	8. $5 + 0 =$
9. $1 + 0 =$	9. $4 + 8 =$
10. $4 + 7 =$	10. $3 + 9 =$

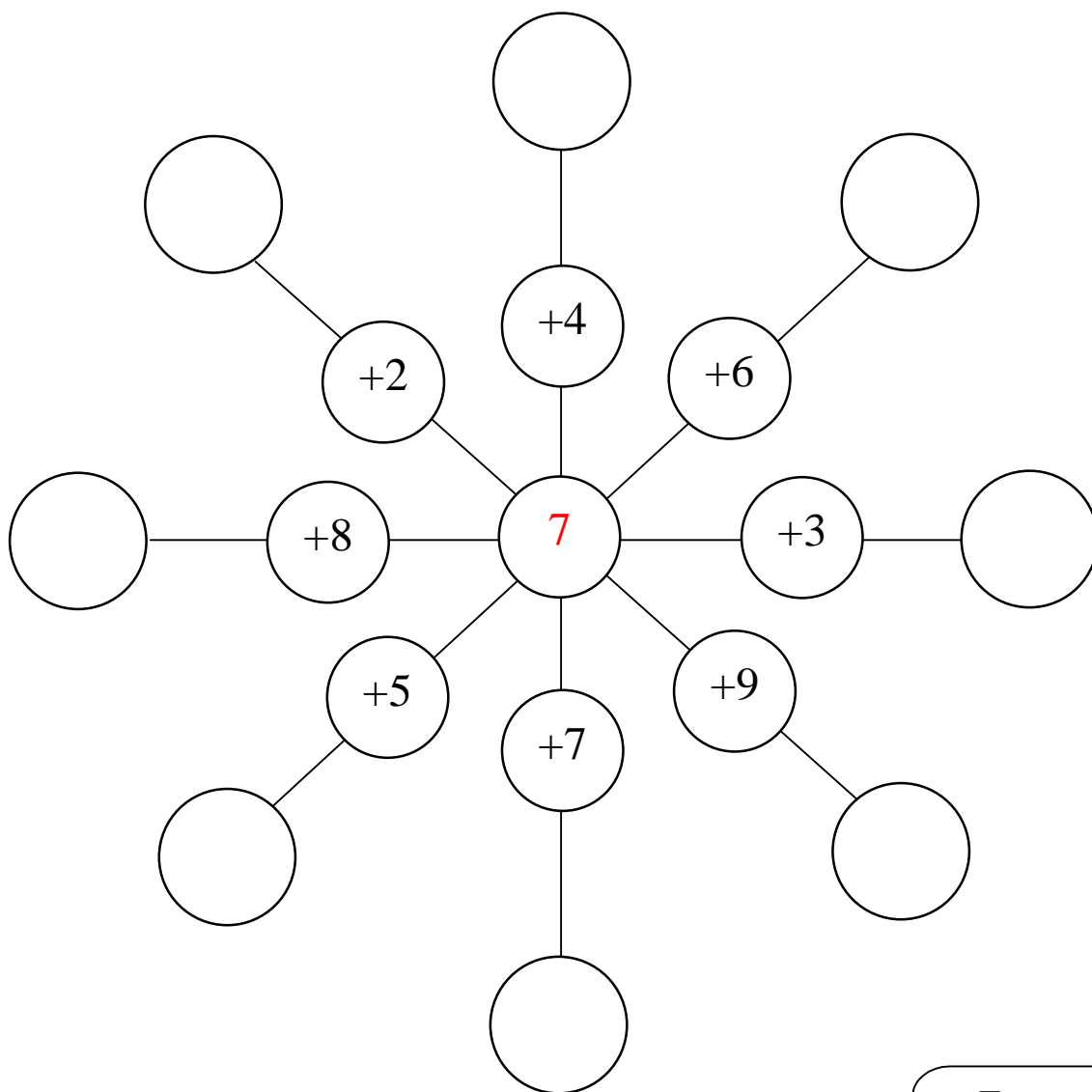
**Adding numbers up to ten - speedy racing**

Faster and faster – do you know most of these by now?



<i>SPEEDY RACE 5</i>	<i>SPEEDY RACE 6</i>
1. $0 + 0 =$	1. $4 + 7 =$
2. $4 + 5 =$	2. $8 + 3 =$
3. $8 + 7 =$	3. $1 + 8 =$
4. $3 + 2 =$	4. $6 + 5 =$
5. $7 + 1 =$	5. $3 + 9 =$
6. $2 + 8 =$	6. $7 + 0 =$
7. $9 + 6 =$	7. $2 + 2 =$
8. $5 + 9 =$	8. $5 + 6 =$
9. $1 + 3 =$	9. $9 + 1 =$
10. $6 + 4 =$	10. $0 + 4 =$

Add 7



Pairs of numbers that add up to 7:

$$0 + 7 =$$

$$2 + 5 =$$

$$4 + 3 =$$

$$6 + 1 =$$

$$1 + 6 =$$

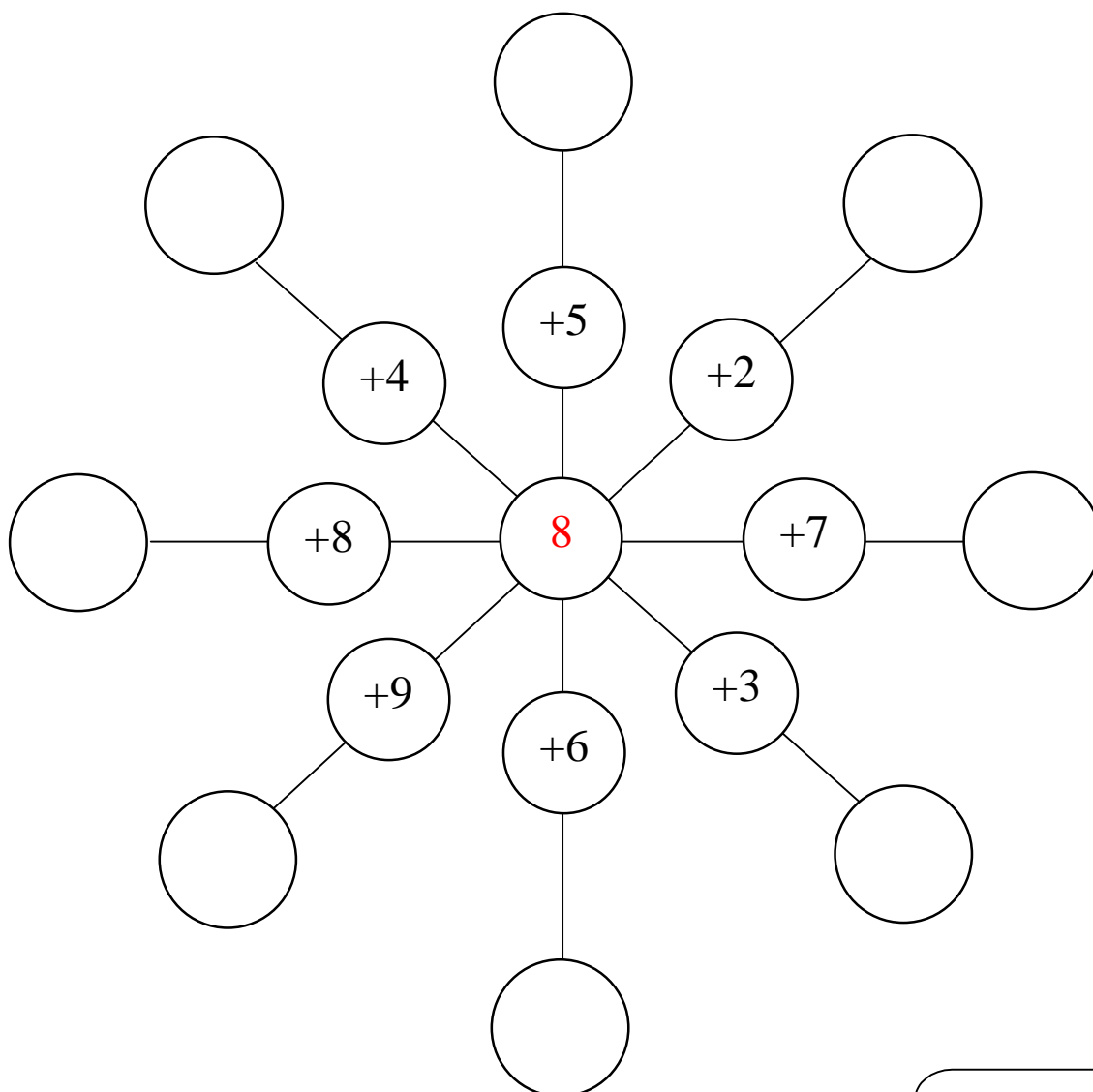
$$3 + 4 =$$

$$5 + 2 =$$

$$7 + 0 =$$

Try to
learn
these!!



Add 8**Pairs of numbers that add up to 8:**

$0 + 8 =$

$1 + 7 =$

$2 + 6 =$

$3 + 5 =$

$4 + 4 =$

$5 + 3 =$

$6 + 2 =$

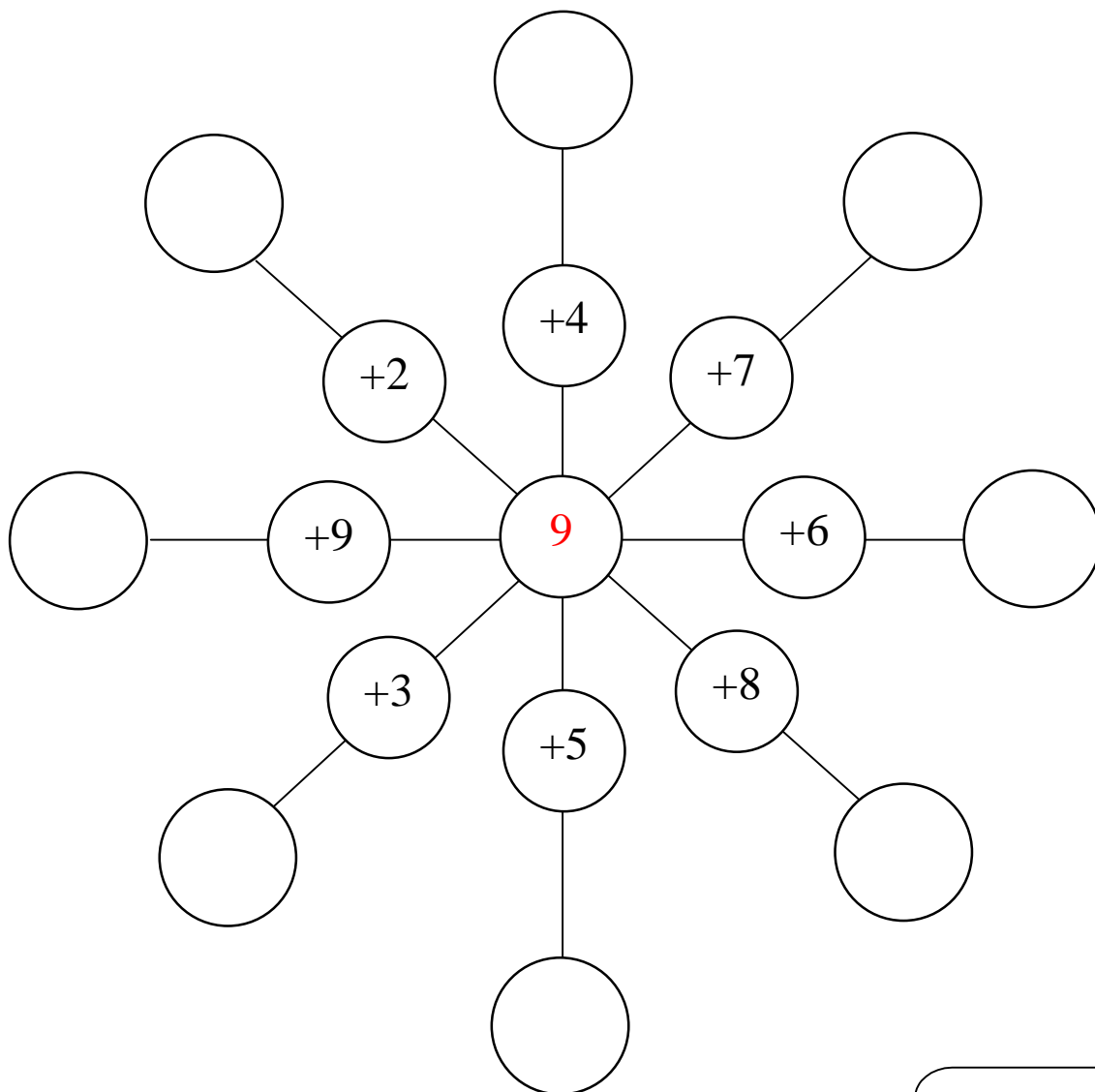
$7 + 1 =$

$8 + 0 =$

Try to
learn
these!!



Add 9



Pairs of numbers that add up to 9:

$0 + 9 =$

$1 + 8 =$

$2 + 7 =$

$3 + 6 =$

$4 + 5 =$

$5 + 4 =$

$6 + 3 =$

$7 + 2 =$

$8 + 1 =$

$9 + 0 =$

Also try to
learn
these!!



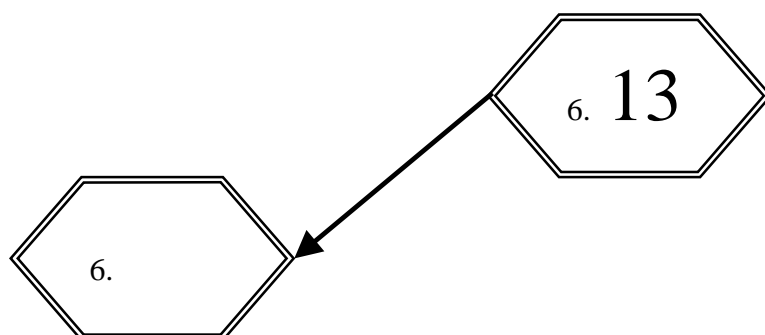
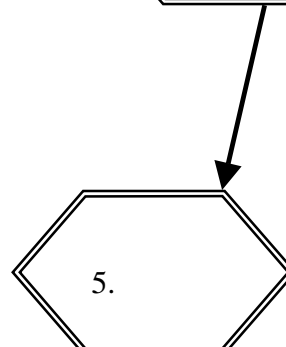
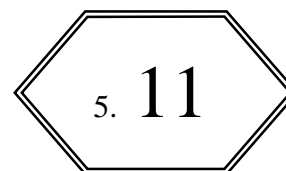
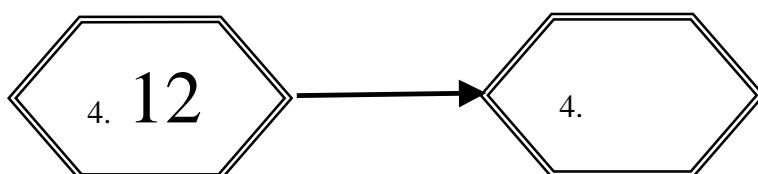
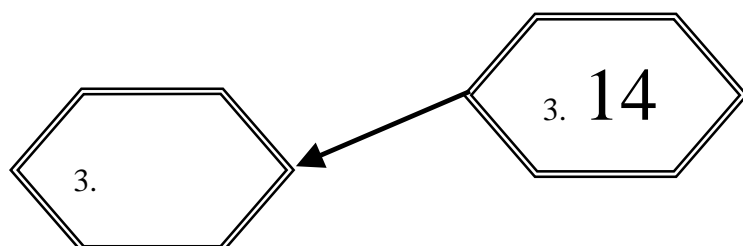
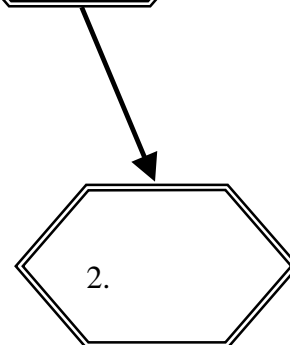
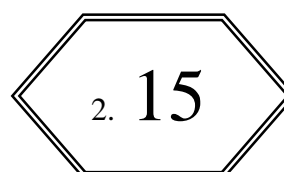
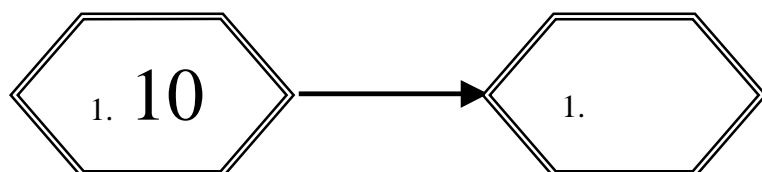
Doubles



Hello! Hello!

Try doubling these numbers.

Write your answers in the empty boxes.



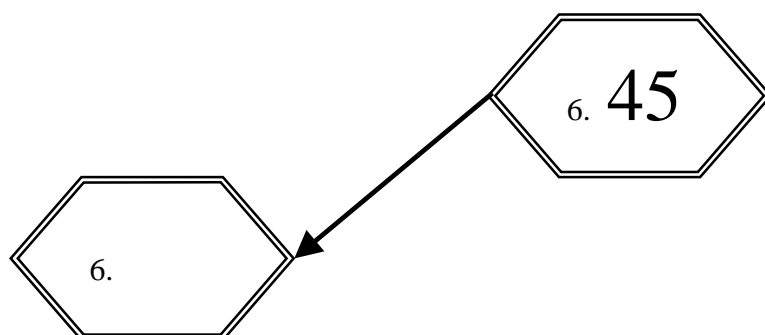
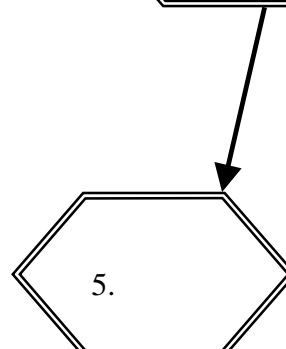
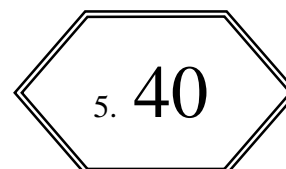
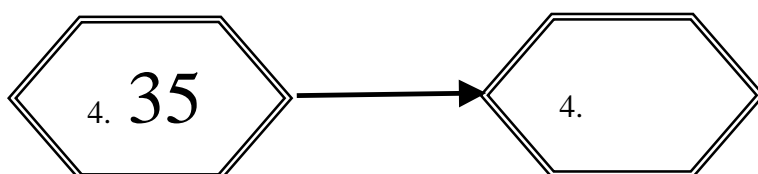
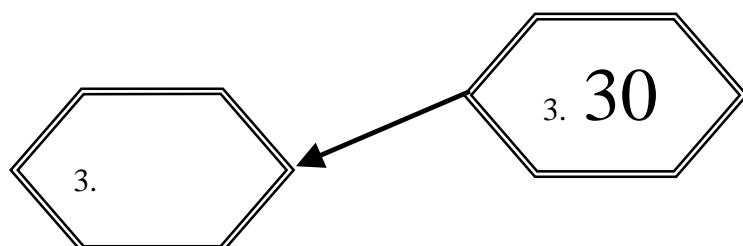
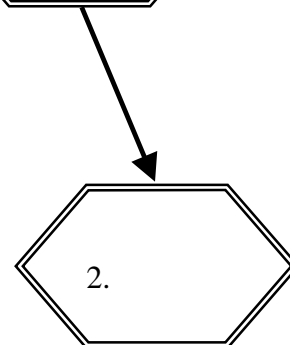
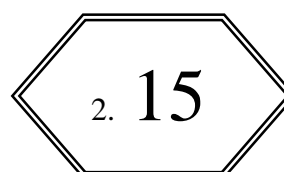
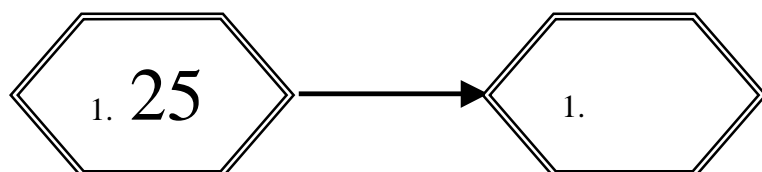
Doubles

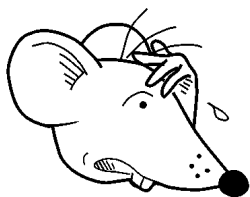


Hello! Hello!

Try doubling these numbers.

Write your answers in the empty boxes.



Pairs of numbers that total 20

Join pairs of cards
that make twenty!
Aargh!!!!

12

15

14

8

6

5

9

11

7

13

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

Pairs of numbers that total 20

Join pairs of cards
that make twenty!
Aargh!!!!

8

4

12

7

16

18

9

13

11

2

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

How many more make 20?

All the answers to these come to 20.

Can you find the missing numbers?

1. $\begin{array}{|c|} \hline 8 \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

2. $\begin{array}{|c|} \hline 15 \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

3. $\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline 7 \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

4. $\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline 14 \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

5. $\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline 12 \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

6. $\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline 3 \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

How many more make 20?

All the answers to these come to 20.

Can you find the missing numbers?

1. $\begin{array}{|c|} \hline 10 \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

2. $\begin{array}{|c|} \hline 16 \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

3. $\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline 5 \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

4. $\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline 18 \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

5. $\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline 11 \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

6. $\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline 4 \\ \hline \end{array} = \begin{array}{|c|} \hline 20 \\ \hline \end{array}$

Making 20

How many ways can you make the answers come to 20?

$$\square + \square = 20$$

$$\square + \square = 20$$

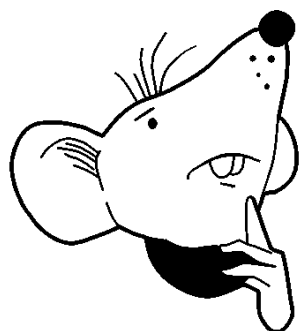
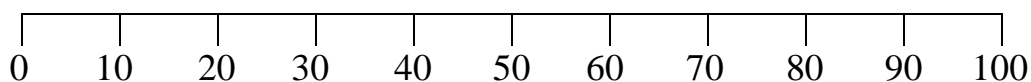
$$\square + \square = 20$$

$$\square + \square = 20$$

$$\square + \square = 20$$

$$\square + \square = 20$$

$$\square + \square = 20$$

Total 100

Which pairs of whole tens will make 100?

$$\bigcirc + \bigcirc = 100$$

$$\bigcirc + \bigcirc = 100$$

$$\bigcirc + \bigcirc = 100$$

$$\bigcirc + \bigcirc = 100$$

$$\bigcirc + \bigcirc = 100$$

$$\bigcirc + \bigcirc = 100$$

$$\bigcirc + \bigcirc = 100$$

$$\bigcirc + \bigcirc = 100$$

$$\bigcirc + \bigcirc = 100$$

$$\bigcirc + \bigcirc = 100$$

Is it possible to find ten different ways?

Answers**Page 3**

Race 1: 1. 12 2. 9 3. 8 4. 14 5. 8 6. 6 7. 11 8. 9 9. 9 10. 4
 Race 2: 1. 9 2. 9 3. 7 4. 9 5. 10 6. 15 7. 2 8. 9 9. 8 10. 12

Page 4

Race 3: 1. 11 2. 11 3. 5 4. 3 5. 14 6. 6 7. 17 8. 11 9. 1 10. 11
 Race 4: 1. 12 2. 9 3. 14 4. 6 5. 11 6. 2 7. 7 8. 5 9. 12 10. 12

Page 5

Race 5: 1. 0 2. 9 3. 15 4. 5 5. 8 6. 10 7. 15 8. 14 9. 4 10. 10
 Race 6: 1. 11 2. 11 3. 9 4. 11 5. 12 6. 7 7. 4 8. 11 9. 10 10. 4

Page 6

Clockwise: 11 13 10 16 14 12 15 9

Page 7

Clockwise: 13 10 15 11 14 17 16 12

Page 8

Clockwise: 13 16 15 17 14 12 18 11

Page 9

1. 20 2. 30 3. 28 4. 24 5. 22 6. 26

Page 10

1. 50 2. 30 3. 60 4. 70 5. 80 6. 90

Page 13

1. 12 2. 5 3. 13 4. 6 5. 8 6. 17

Page 14

1. 10 2. 4 3. 15 4. 2 5. 9 6. 16