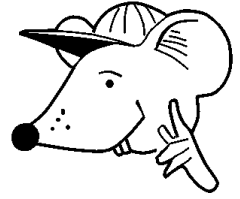


MATHEMATICS



**Y2 Addition and Subtraction
2230**

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.

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.

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



SPEEDY RACE 1	SPEEDY RACE 2
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!

SPEEDY RACE 3	SPEEDY RACE 4
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?



SPEEDY RACE 5	SPEEDY RACE 6
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. $0 + 4 =$

Subtracting numbers up to ten - speedy racing

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



SPEEDY RACE 7	SPEEDY RACE 8
1. $4 - 1 =$	1. $4 - 3 =$
2. $6 - 5 =$	2. $8 - 3 =$
3. $8 - 3 =$	3. $9 - 8 =$
4. $5 - 2 =$	4. $8 - 5 =$
5. $7 - 4 =$	5. $5 - 5 =$
6. $4 - 4 =$	6. $7 - 0 =$
7. $9 - 6 =$	7. $6 - 2 =$
8. $9 - 5 =$	8. $4 - 3 =$
9. $5 - 3 =$	9. $9 - 1 =$
10. $7 - 4 =$	10. $6 - 4 =$

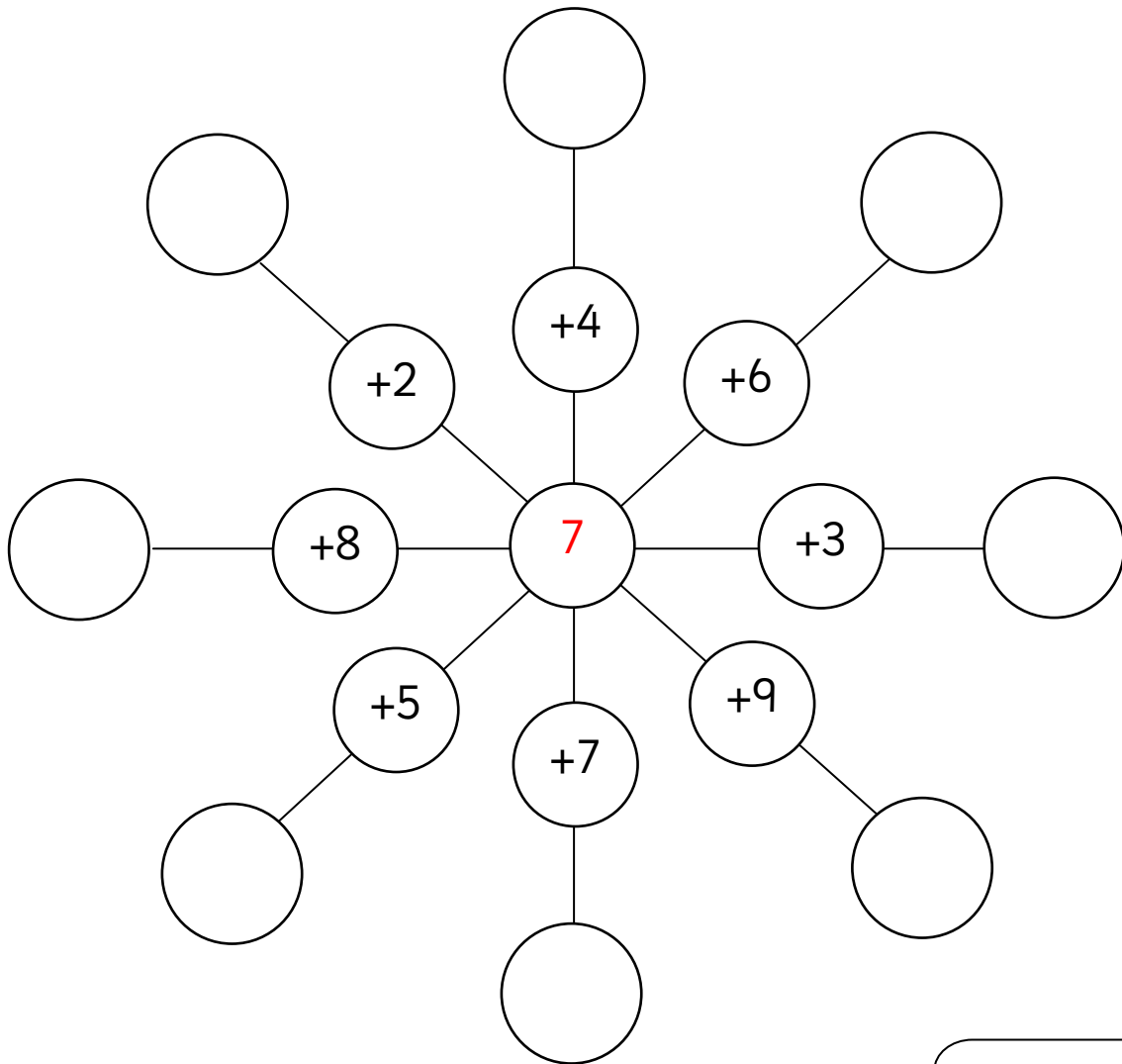


Subtracting numbers up to ten - speedy racing

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



SPEEDY RACE 9	SPEEDY RACE 10
1. $5 - 1 =$	1. $5 - 2 =$
2. $7 - 2 =$	2. $7 - 4 =$
3. $9 - 4 =$	3. $8 - 8 =$
4. $7 - 3 =$	4. $9 - 0 =$
5. $9 - 7 =$	5. $6 - 1 =$
6. $6 - 5 =$	6. $6 - 3 =$
7. $10 - 3 =$	7. $10 - 0 =$
8. $7 - 1 =$	8. $9 - 3 =$
9. $10 - 3 =$	9. $7 - 2 =$
10. $8 - 4 =$	10. $9 - 5 =$

Add 7

Pairs of numbers that add up to 7:

$$0 + 7 =$$

$$1 + 6 =$$

$$2 + 5 =$$

$$3 + 4 =$$

$$4 + 3 =$$

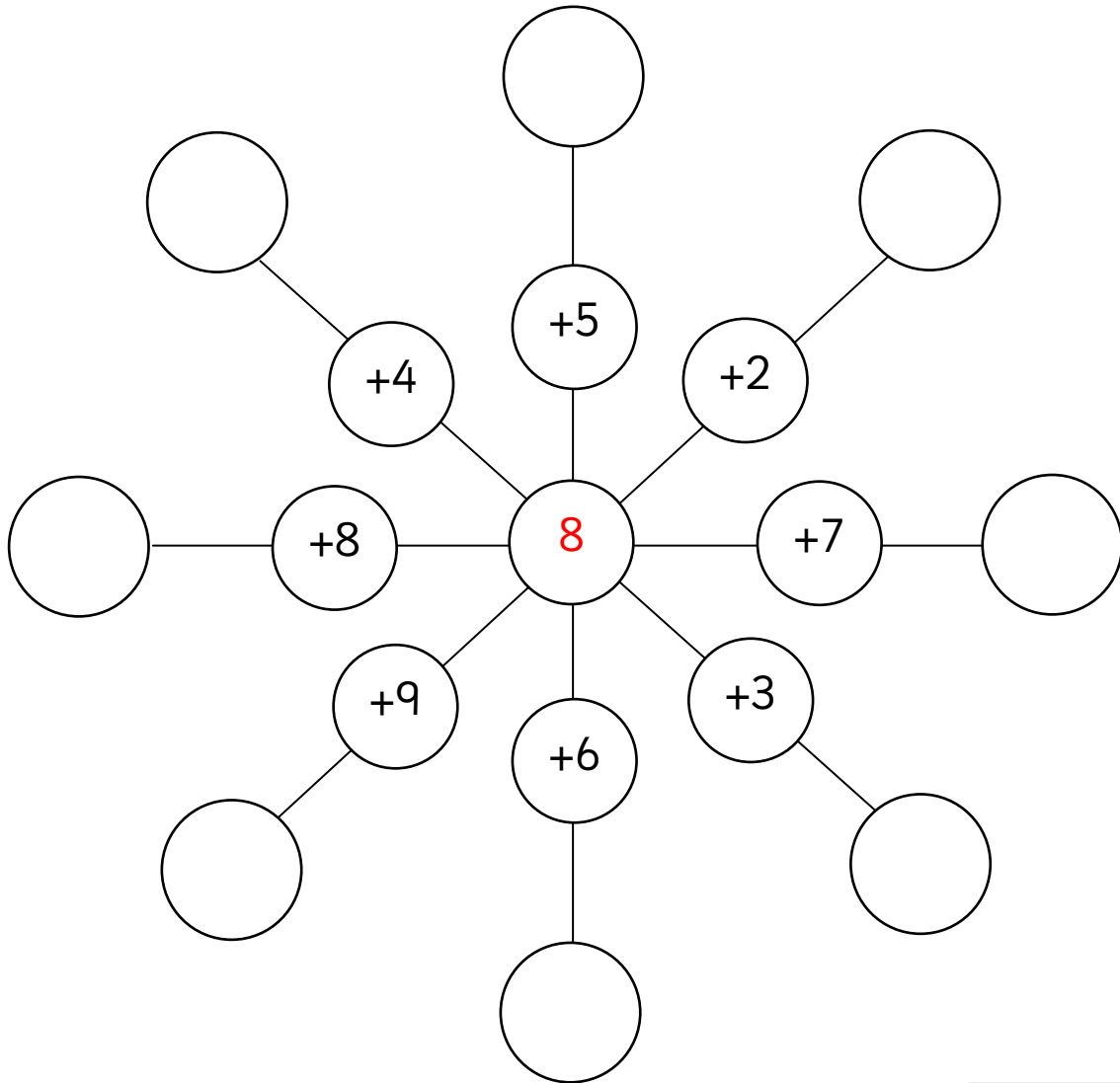
$$5 + 2 =$$

$$6 + 1 =$$

$$7 + 0 =$$

Try to
learn
these!!



Add 8

Pairs of numbers that add up to 8:

$0 + 8 =$

$1 + 7 =$

$2 + 6 =$

$3 + 5 =$

$4 + 4 =$

$5 + 3 =$

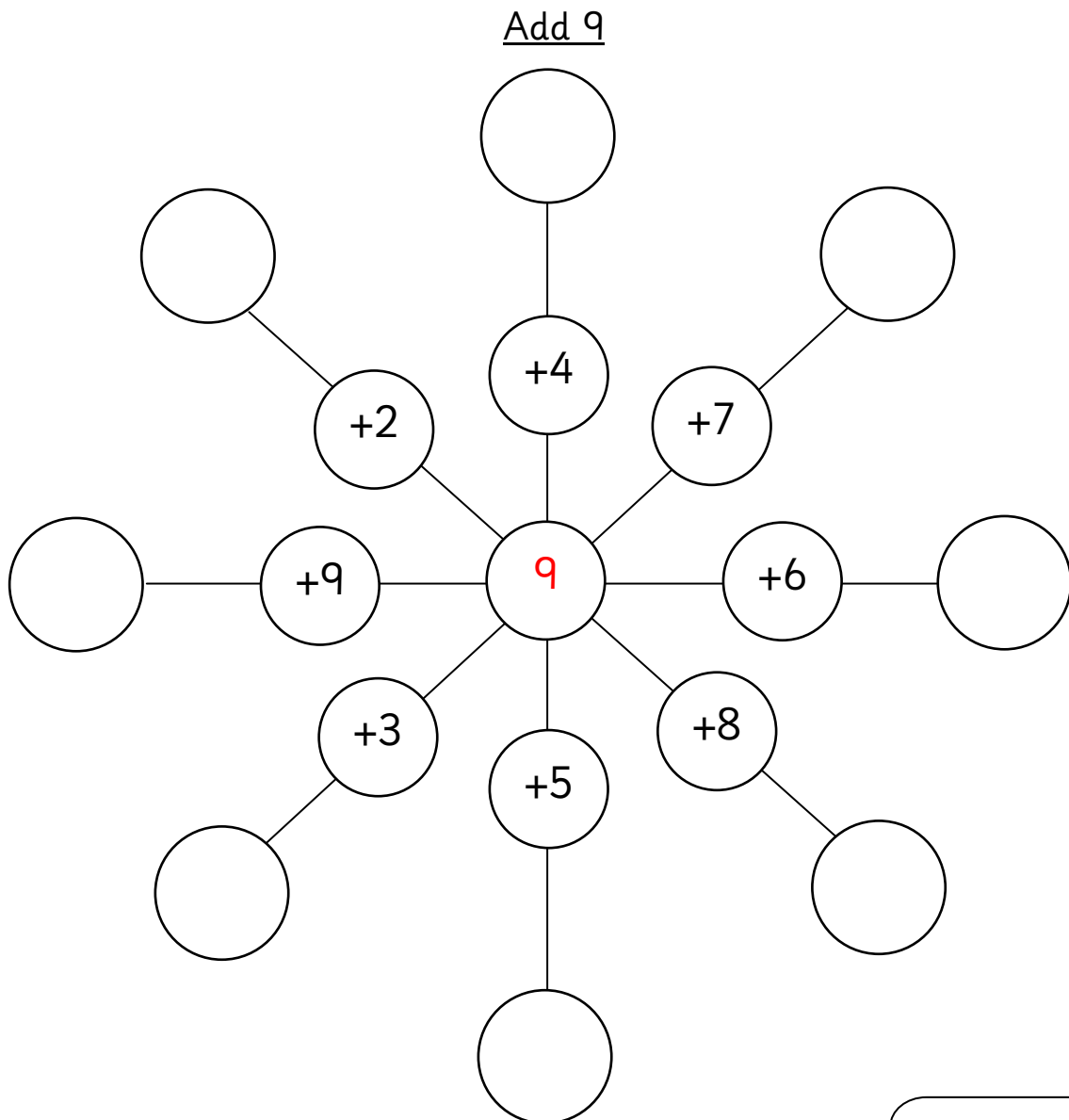
$6 + 2 =$

$7 + 1 =$

$8 + 0 =$

Try to
learn
these!!





Pairs of numbers that add up to 9:

$0 + 9 =$

$1 + 8 =$

$2 + 7 =$

$3 + 6 =$

$4 + 5 =$

$5 + 4 =$

$6 + 3 =$

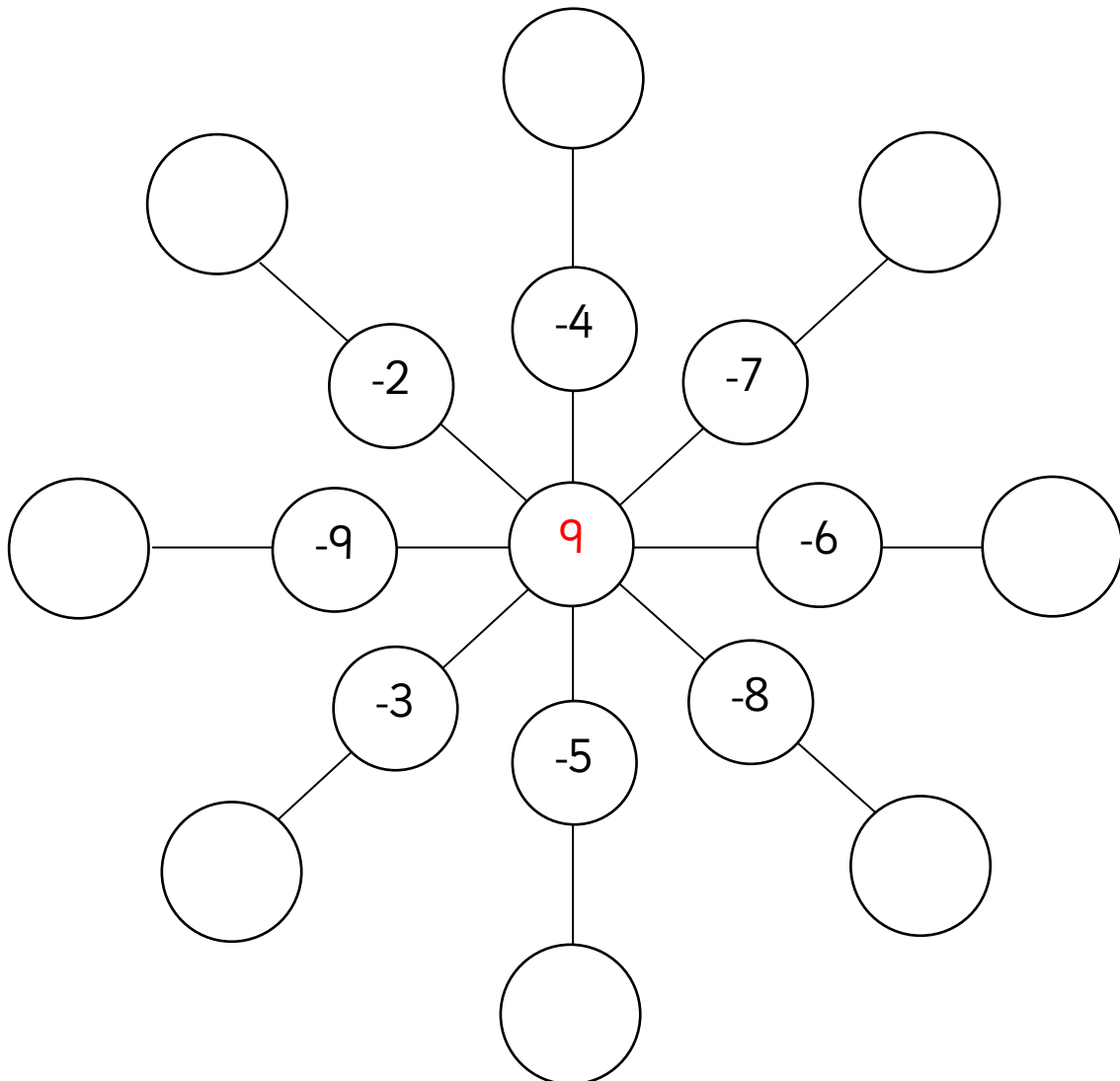
$7 + 2 =$

$8 + 1 =$

$9 + 0 =$

Also try to
learn
these!!



Subtract from 9

Subtracting from 9:

$9 - 9 =$

$9 - 8 =$

$9 - 7 =$

$9 - 6 =$

$9 - 5 =$

$9 - 4 =$

$9 - 3 =$

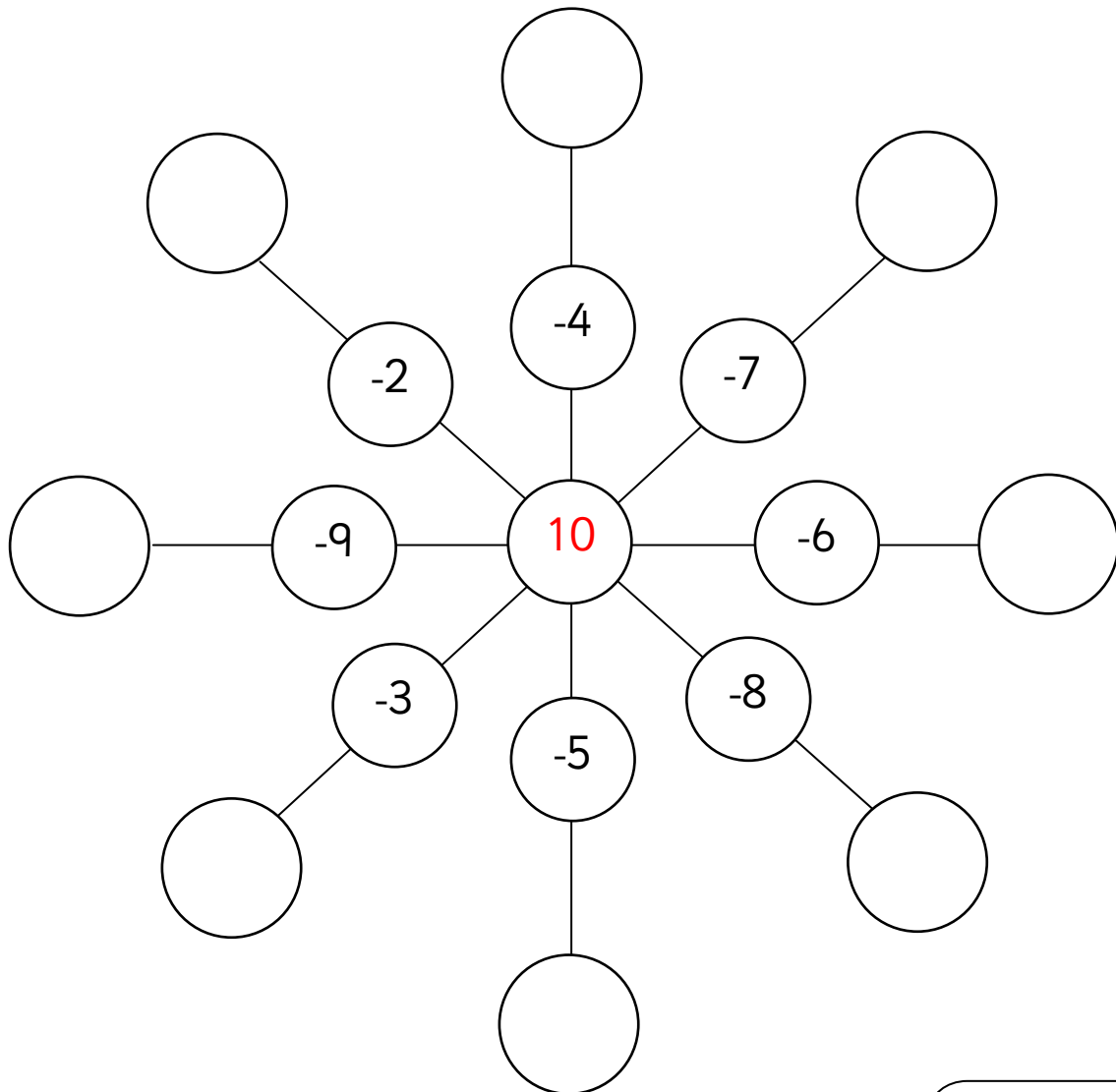
$9 - 2 =$

$9 - 1 =$

$9 - 0 =$

Also try to
learn
these!!



Subtract from 10

Subtracting from 10:

$10 - 9 =$

$10 - 7 =$

$10 - 5 =$

$10 - 3 =$

$10 - 1 =$

$10 - 8 =$

$10 - 6 =$

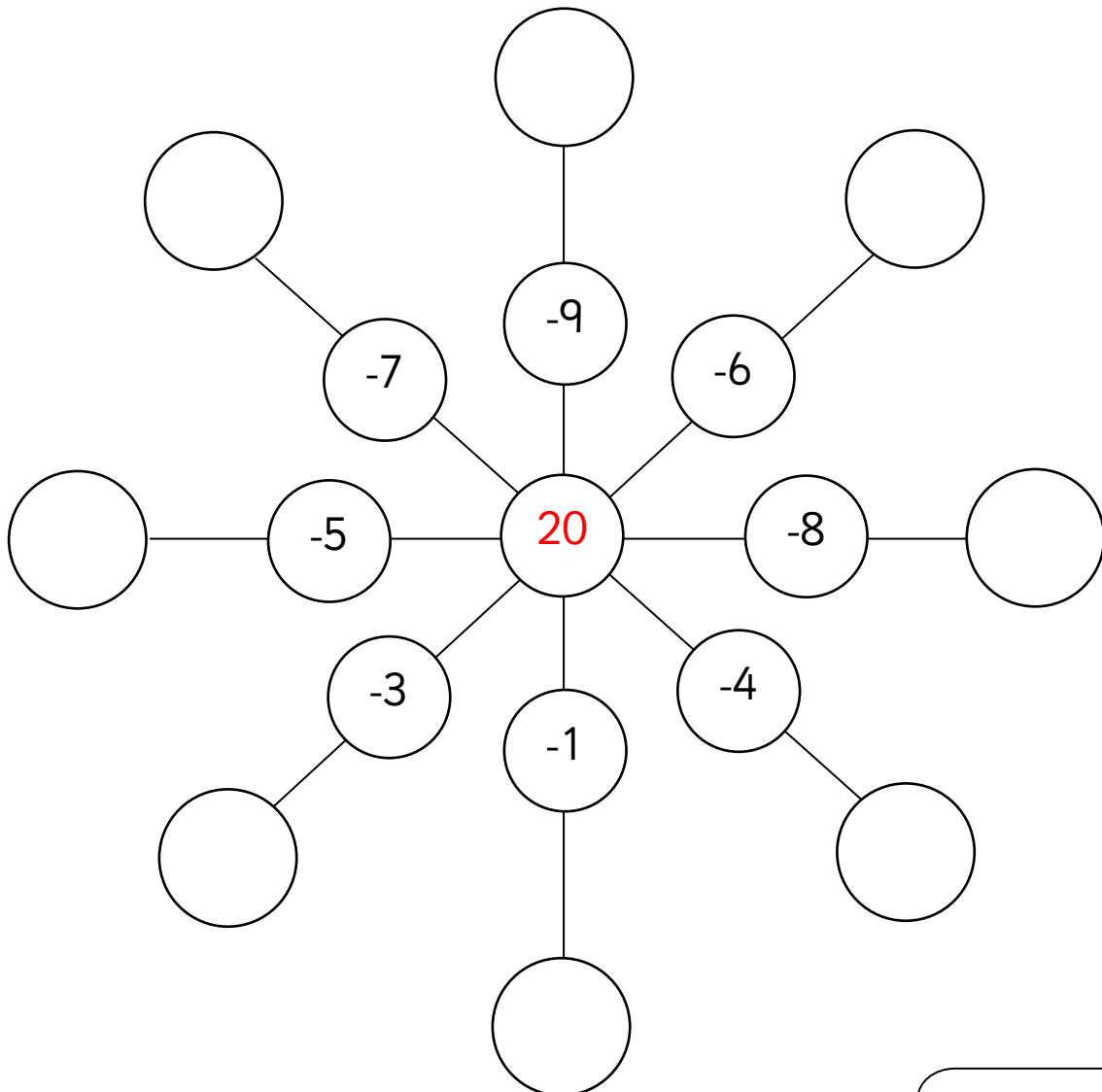
$10 - 4 =$

$10 - 2 =$

$10 - 0 =$

Also try to
learn
these!!



Subtract from 20

Subtracting from 20:

$20 - 9 =$

$20 - 7 =$

$20 - 5 =$

$20 - 3 =$

$20 - 1 =$

$20 - 8 =$

$20 - 6 =$

$20 - 4 =$

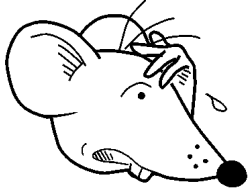
$20 - 2 =$

$20 - 0 =$

Also try to
learn
these!!



Pairs of numbers that total 20



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

12

15

14

8

6

5

7

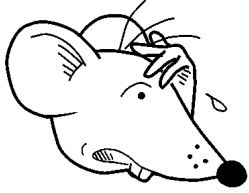
9

11

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

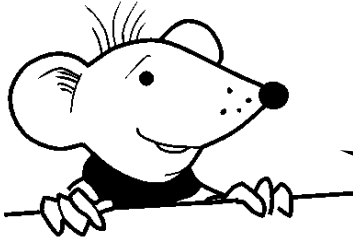
13

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. $8 + \square = 20$

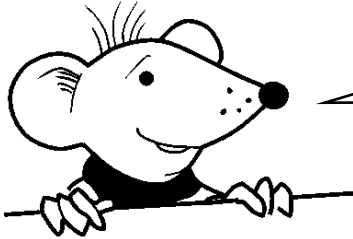
2. $15 + \square = 20$

3. $\square + 7 = 20$

4. $\square + 14 = 20$

5. $\square + 12 = 20$

6. $\square + 3 = 20$

How many more make 20?

All the answers to these come to 20.
Can you find the missing numbers?

1. $10 + \square = 20$

2. $16 + \square = 20$

3. $\square + 5 = 20$

4. $\square + 18 = 20$

5. $\square + 11 = 20$

6. $\square + 4 = 20$

Making 20

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

$$\text{Octagon} + \text{Octagon} = \text{Octagon with } 20$$

$$\text{Octagon} + \text{Octagon} = \text{Octagon with } 20$$

$$\text{Octagon} + \text{Octagon} = \text{Octagon with } 20$$

$$\text{Octagon} + \text{Octagon} = \text{Octagon with } 20$$

$$\text{Octagon} + \text{Octagon} = \text{Octagon with } 20$$

$$\text{Octagon} + \text{Octagon} = \text{Octagon with } 20$$

$$\text{Octagon} + \text{Octagon} = \text{Octagon with } 20$$

Pairs of numbers that total 100



Join pairs of cards
that make 100!
Yes!!!!

- 10
- 20
- 30
- 40
- 50
- 60
- 70
- 80
- 90
- 100

10

40

80

70

20

50

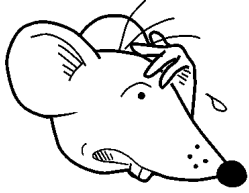
30

90

60

50

Pairs of numbers that total 100



Join pairs of cards that make 100!
Yes!!!!

- 10
- 20
- 30
- 40
- 50
- 60
- 70
- 80
- 90
- 100

40

50

60

80

30

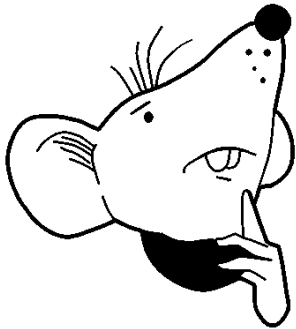
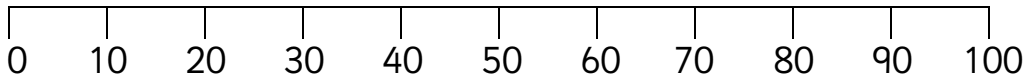
70

20

50

90

10

Total 100

Which pairs of whole tens will make 100?

$$\text{○} + \text{○} = 100$$

$$\text{○} + \text{○} = 100$$

$$\text{○} + \text{○} = 100$$

$$\text{○} + \text{○} = 100$$

$$\text{○} + \text{○} = 100$$

$$\text{○} + \text{○} = 100$$

$$\text{○} + \text{○} = 100$$

$$\text{○} + \text{○} = 100$$

$$\text{○} + \text{○} = 100$$

$$\text{○} + \text{○} = 100$$

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

Race 7: 1.3 2.1 3.5 4.3 5.3 6.0 7.3 8.4 9.2 10.3
 Race 8: 1.1 2.5 3.1 4.3 5.0 6.7 7.4 8.1 9.8 10.2

Page 7

Race 9: 1.4 2.5 3.5 4.4 5.2 6.1 7.7 8.6 9.7 10.4
 Race 10: 1.3 2.3 3.0 4.9 5.5 6.3 7.10 8.6 9.5 10.4

Page 8

Clockwise: 11 13 10 16 14 12 15 9

Page 9

Clockwise: 13 10 15 11 14 17 16 12

Page 10

Clockwise: 13 16 15 17 14 12 18 11

Page 11

Clockwise: 5 2 3 1 4 6 0 7

Page 12

Clockwise: 6 3 4 2 5 7 1 8

Page 13

Clockwise: 11 14 12 16 19 17 15 13

Page 16

1.12 2.5 3.13 4.6 5.8 6.17

Page 17

1.10 2.4 3.15 4.2 5.9 6.16