

Q7

How many even numbers are there between 17 and 43?

13

Q8

Pat is 6 years older than Josh. If Pat is 23 years old, how old is Josh?

17

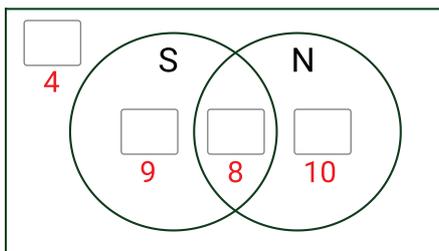
Q9

Paige is twice the age of Maddie. If Paige is 28 years old, how old is Maddie?

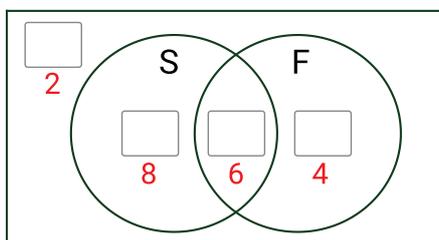
14

Q10

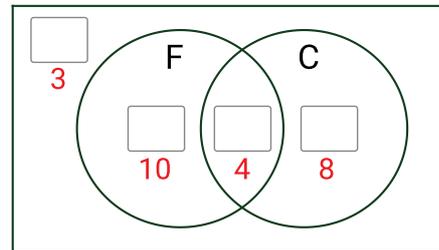
31 students are in a class. 17 play soccer, 18 play netball and 4 students don't play either sport. Complete the Venn diagram.

**Q11**

20 students are in a music class. 14 play the saxophone, 10 play the flute and 2 students don't play either instrument. Complete the Venn Diagram.

**Q12**

25 students are in a class. 14 students like fruit, 12 students like chocolate and 3 don't eat either. Complete the Venn diagram.

**Q13**

5 coins are on a table: 5c, 10c, 20c, 50c, \$2. How many different amounts can be made up using three of the coins?

10

Q14

Using only the digits 1 and 8, how many 2-digit numbers can be formed? The digits may not be repeated.

2

Q15

Using only the digits 2, 3 and 7, how many 3-digit numbers can be formed? The digits may not be repeated.

6

Q16

I start with a number, add 10, then multiply by 4. I am left with 48. Find the number I started with.

2

Q17

I start with a number, subtract 10, then multiply by 3. I am left with 15. Find the number I started with.

15

Q18

I start with a number, add 9, then divide by 5. I am left with 8. Find the number I started with.

31

Q19

It takes Jen 12 minutes to cut a length of pipe into 4 pieces. How long will it take her to cut a similar length of pipe into 8 pieces?

minutes 28

Q20

It takes Nick 20 minutes to cut a length of pipe into 5 pieces. How long will it take him to cut a similar length of pipe into 10 pieces?

minutes 45

Q21

20 students are in a class. 14 play football, 10 play cricket and 2 students don't play either sport.

How many play both sports? 6

How many play cricket only? 4

Q22

31 students are in a class. 17 play soccer, 18 play netball and 4 students don't play either sport.

How many play both sports? 8

How many play netball only? 10

Q23

How many numbers between 100 and 300 have a digit sum of 6?

11

Q24

What is the smallest 3-digit number that has a digit sum of 8?

107

Q25

Three cards numbered 2, 3 and 5 are shuffled and two are dealt face up to form a 2-digit number. List all the possible numbers which are less than 50.

23 25 32 35

Q26

Four cards numbered 2, 4, 7 and 8 are shuffled and three are dealt face up to form a 3-digit number. List all the possible even numbers which are less than 500.

248 274 278 284
428 472 478 482

Q27

Luke is 12 years older than Will and is a quarter of Hugo's age. If Will is 3 years old, how old is Hugo?

 60**Q28**

Levi is 5 years older than Zac and Rosie is twice Zac's age. Holly is 8 years older than Rosie. If Holly is 20 years old, how old is Levi?

 11**Q29**

Luca is 3 years younger than Tyler and Penny is twice Tyler's age. Isla is 4 years older than Penny. If Isla is 22 years old, how old is Luca?

 6**Q30**

Megan is 2 years older than Jacob and Zara is half Jacob's age. Ava is 4 years older than Zara. If Ava is 12 years old, how old is Megan?

 18