

KS2 VENN DIAGRAM BOOKLET

NI TUTOING SCHOOL

ANSWERS

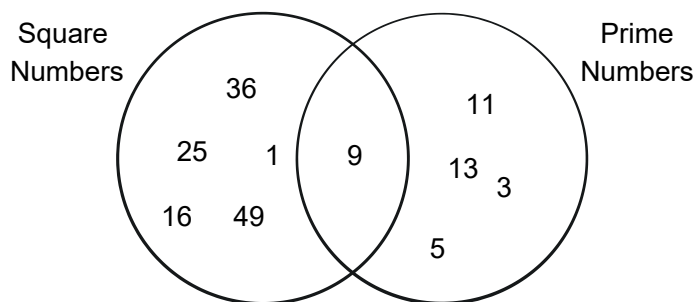




1

Look at the Venn diagram below.

The numbers are sorted by whether they are square numbers or prime numbers



Which number has been placed in the wrong section?

A 16

B 1

C 9

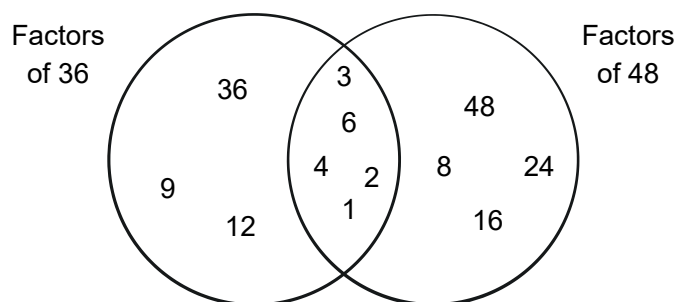
D 49

E 5

2

Look at the Venn diagram below.

The numbers are sorted by whether they are factors of 36 or factors of 48



Which number has been placed in the wrong section?

A 6

B 1

C 9

D 12

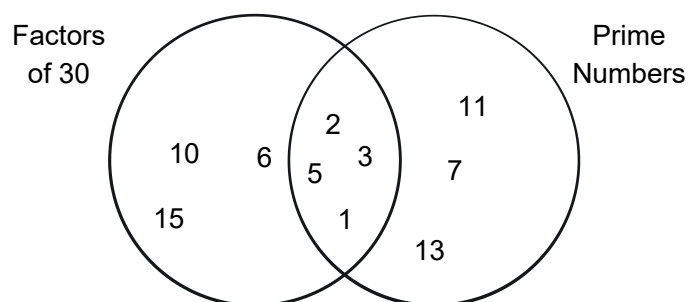
E 16



3

Look at the Venn diagram below.

The numbers are sorted by whether they are factors of 30 or prime numbers.



Which number has been placed in the wrong section?

A 10

B 2

C 1

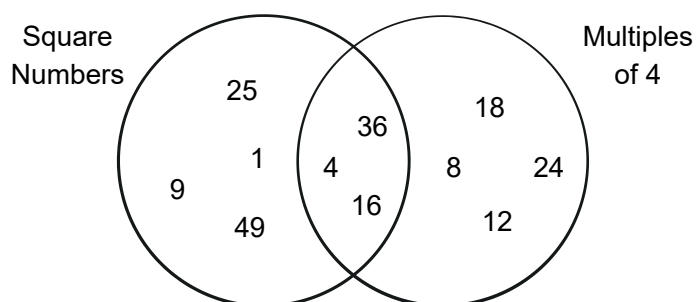
D 7

E 5

4

Look at the Venn diagram below.

The numbers are sorted by whether they are square numbers or multiples of 4.



Which number has been placed in the wrong section?

A 18

B 1

C 24

D 36

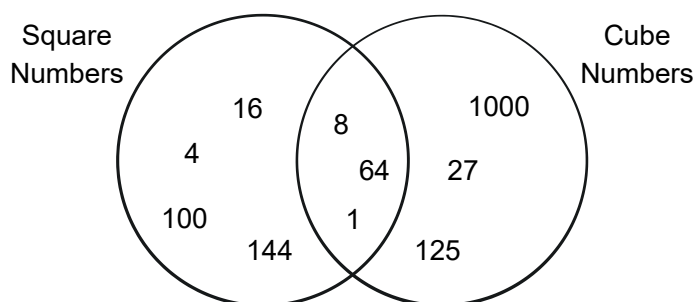
E 16



5

Look at the Venn diagram below.

The numbers are sorted by whether they are square numbers or cube numbers.



Which number has been placed in the wrong section?

A 1000

B 8

C 1

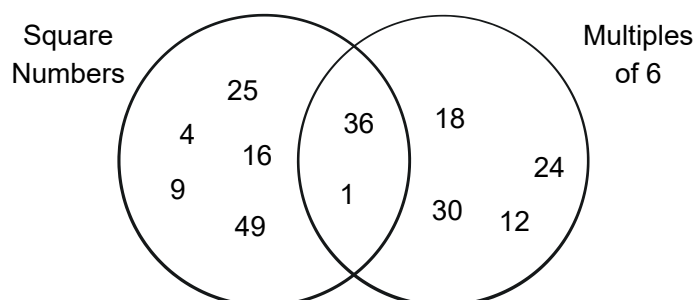
D 64

E 144

6

Look at the Venn diagram below.

The numbers are sorted by whether they are square numbers or multiples of 6.



Which number has been placed in the wrong section?

A 18

B 1

C 16

D 9

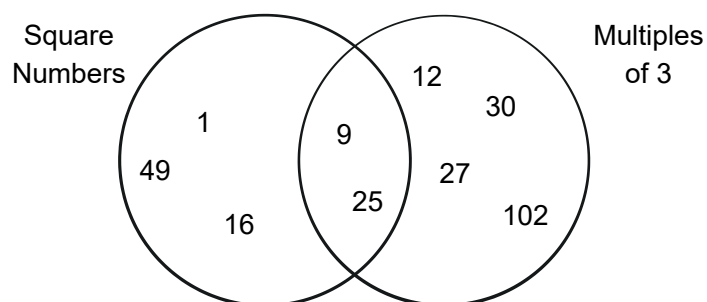
E 30



7

Look at the Venn diagram below.

The numbers are sorted by whether they are square numbers or multiples of 3.



Which number has been placed in the wrong section?

A 27

B 9

C 49

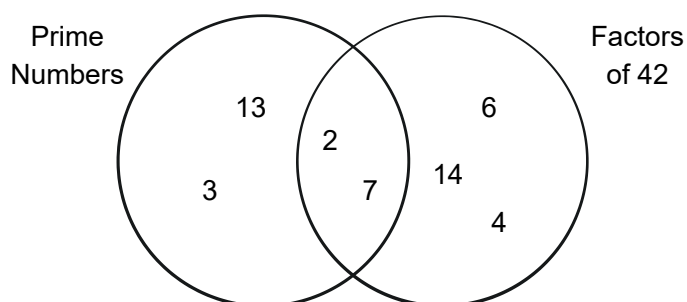
D 25

E 102

8

Look at the Venn diagram below.

The numbers are sorted by whether they are prime numbers or factors of 42.



Which number has been placed in the wrong section?

A 7

B 4

C 13

D 6

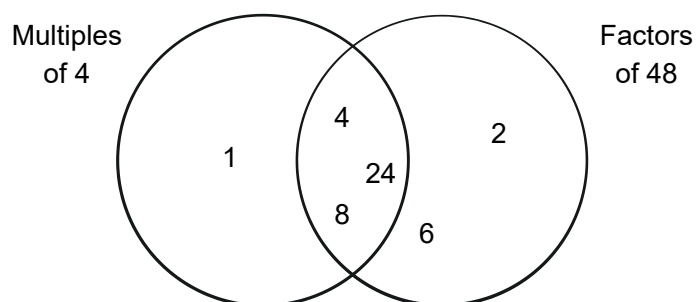
E 14



9

Look at the Venn diagram below.

The numbers are sorted by whether they are multiples of 4 or factors of 48



Which number has been placed in the wrong section?

A 2

B 24

C 8

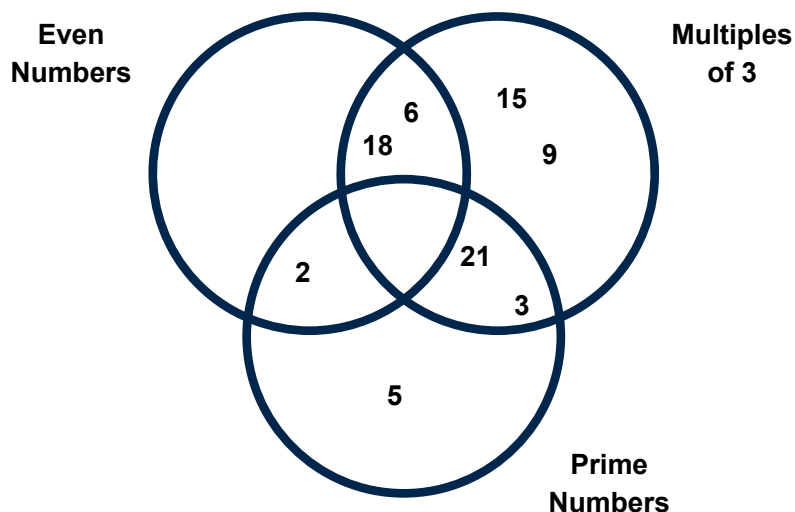
D 6

E 1

10

Look at the Venn diagram below.

The numbers are sorted by whether they are prime numbers, even numbers or multiples of 3.



Which number has been placed in the wrong section?

A 2

B 21

C 3

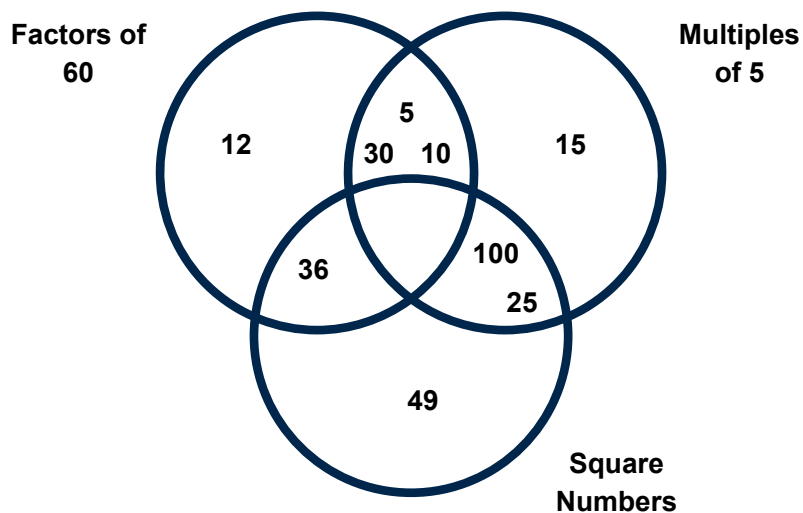
D 18

E 9



11

Look at the Venn diagram below.
The numbers are sorted by whether they are factors of 60, multiples of 5 or square numbers.



Which number has been placed in the wrong section?

A 100

B 12

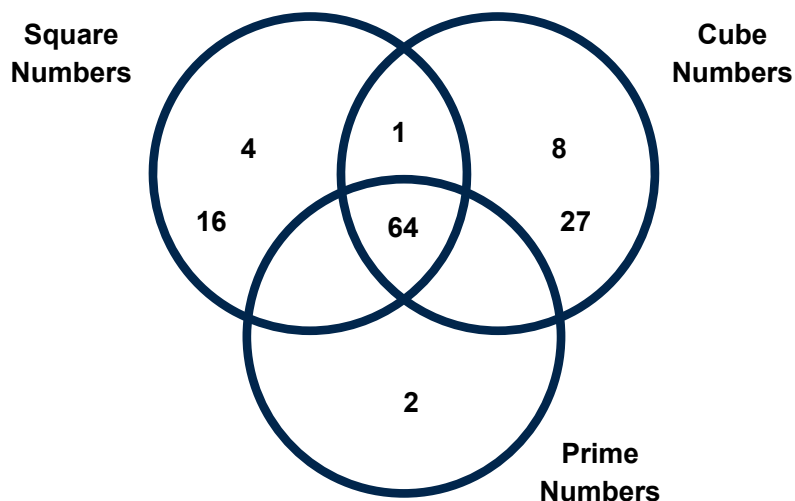
C 36

D 30

E 25

12

Look at the Venn diagram below.
The numbers are sorted by whether they are square numbers, cube numbers or prime numbers.



Which number has been placed in the wrong section?

A 1

B 4

C 8

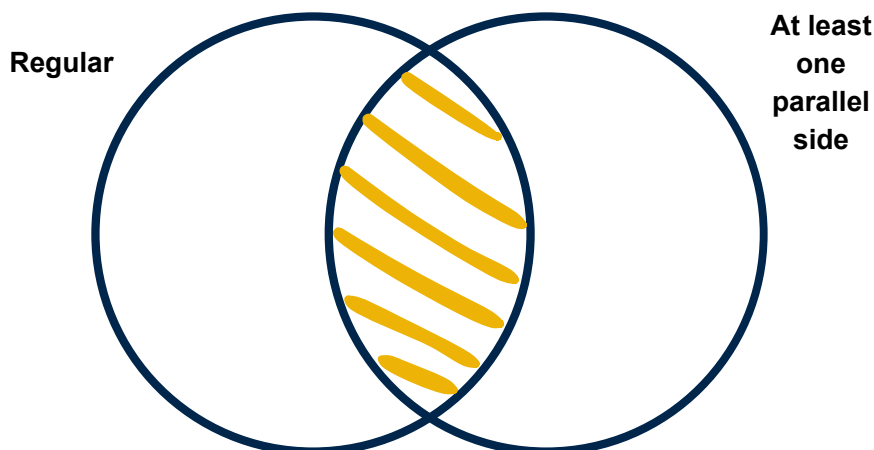
D 2

E 64



13

Look at the Venn diagram below.
The shapes are sorted by whether they are regular or have parallel sides.

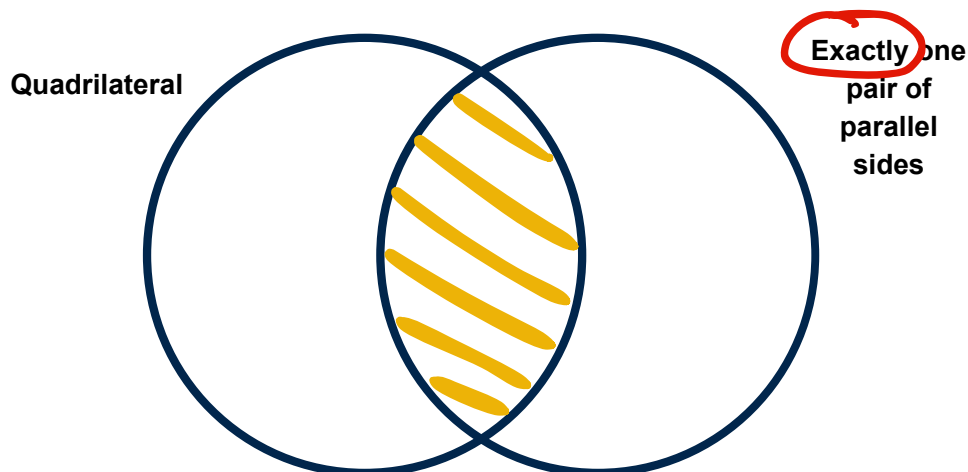


Which shape belongs in the yellow overlap?

- A Rectangle *not regular* **B Square** C Regular Pentagon *no parallel sides* D Isosceles Triangle *not regular, no parallel sides* E Equilateral Triangle *no parallel sides*

14

Look at the Venn diagram below.
The shapes are sorted by whether they are quadrilaterals or have exactly one pair of parallel sides.



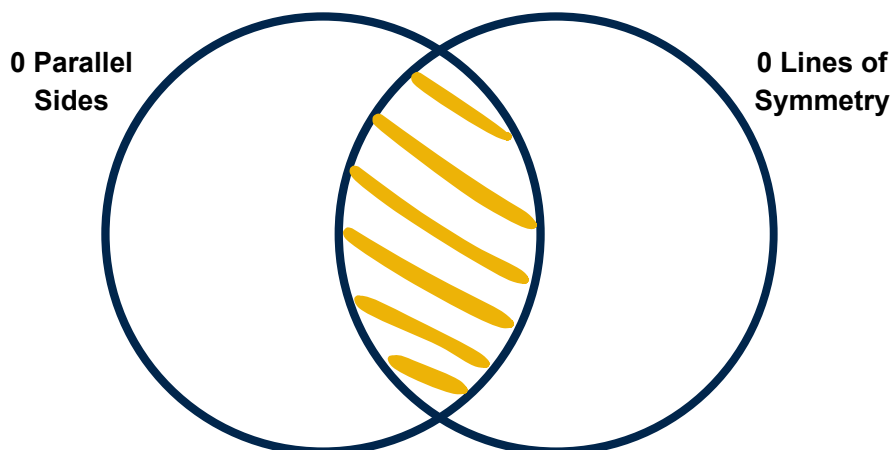
Which shape belongs in the yellow overlap?

- A Rhombus B Parallelogram C Kite **D Trapezium** E Square



15

Look at the Venn diagram below.
The shapes are sorted by whether they have no parallel sides or no lines of symmetry.

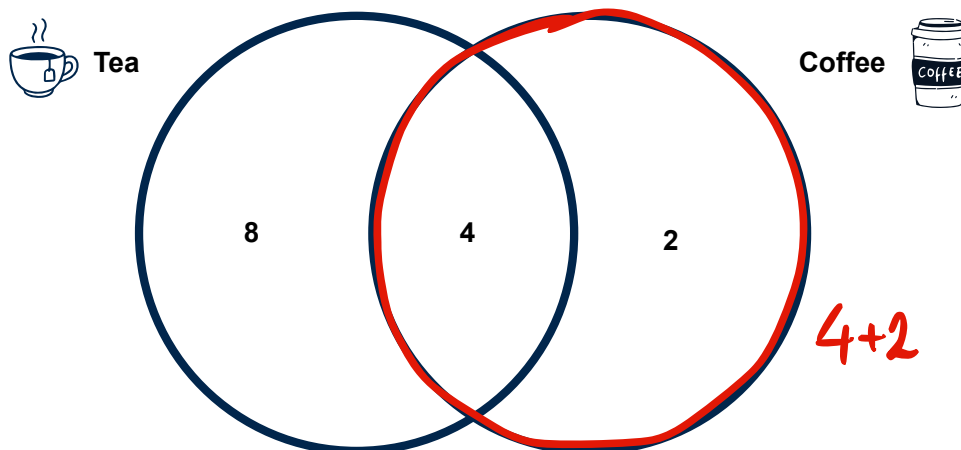


Which shape belongs in the yellow overlap?

- A** Scalene Triangle B Isosceles Triangle C Parallelogram D Kite E Trapezium

15

Look at the Venn diagram below.
It shows the results of a class survey about whether pupils like tea or coffee.



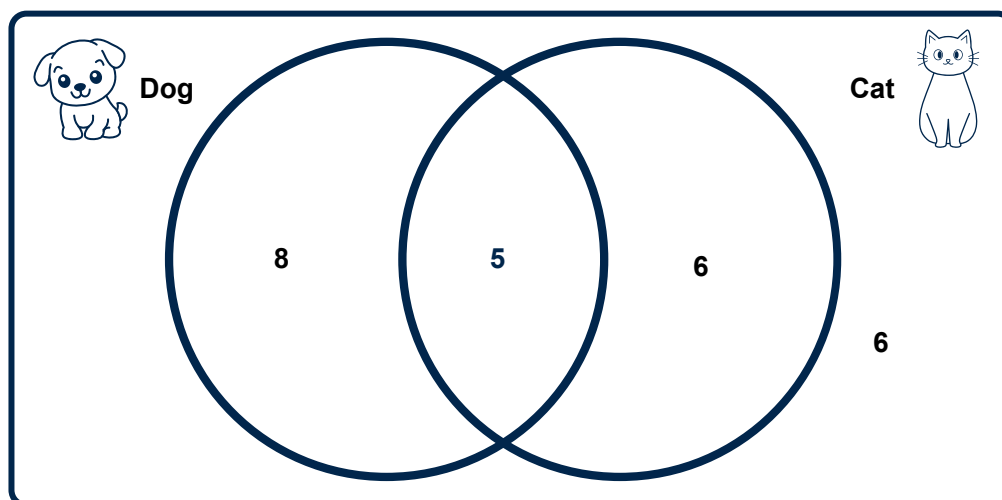
How many pupils like coffee?

- A** 6 B 8 C 12 D 14 E 2



16

Look at the Venn diagram below.
It shows the results of a survey about which pets pupils own.



How many pupils were surveyed?

A 19

B 30

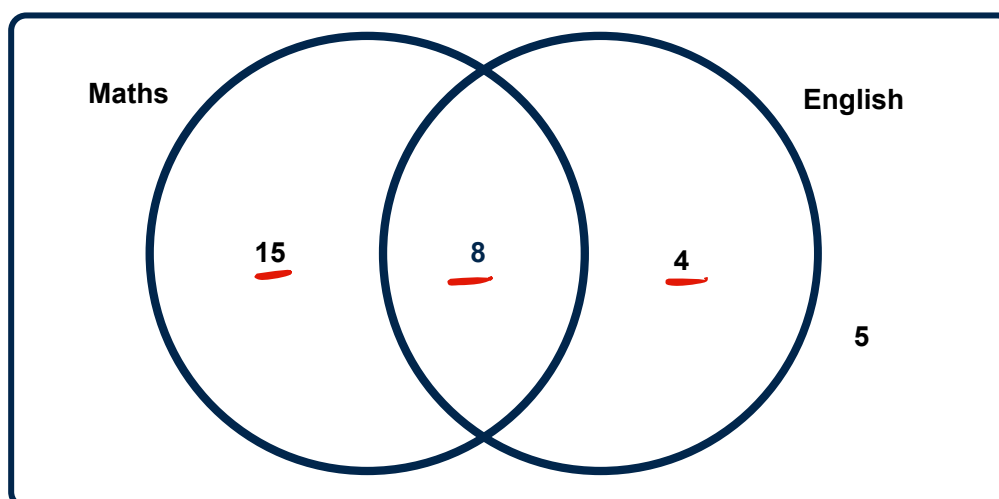
C 9

D 25

E 20

17

Look at the Venn diagram below.
It shows how many pupils completed their Maths and English homework last week.



How many pupils completed at least one of the two homeworks?

A 8

B 19

C 27

D 26

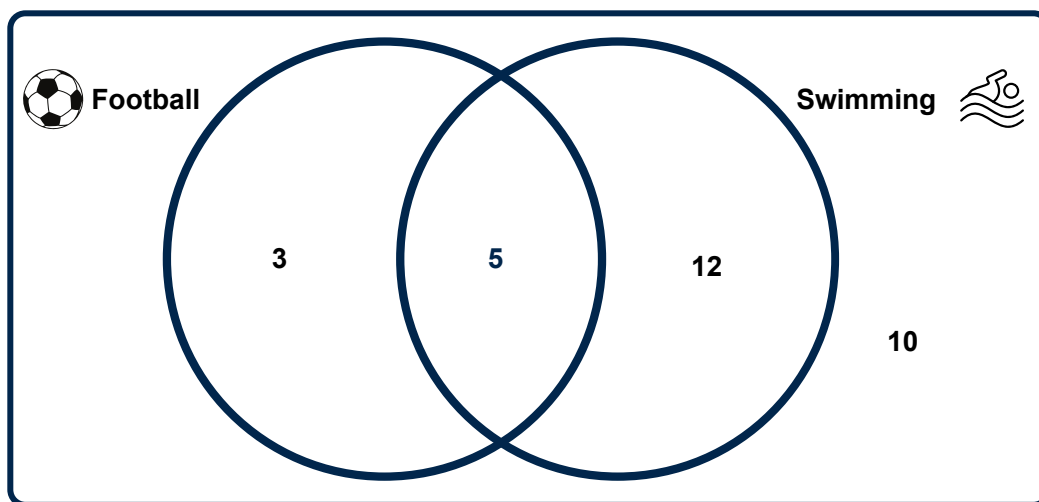
E 28



Free Response

18

Look at the Venn diagram below.
It shows the results of a survey about the sports that students play.



How many students play football?

8

How many students only do swimming?

12

How many students play neither football nor swim?

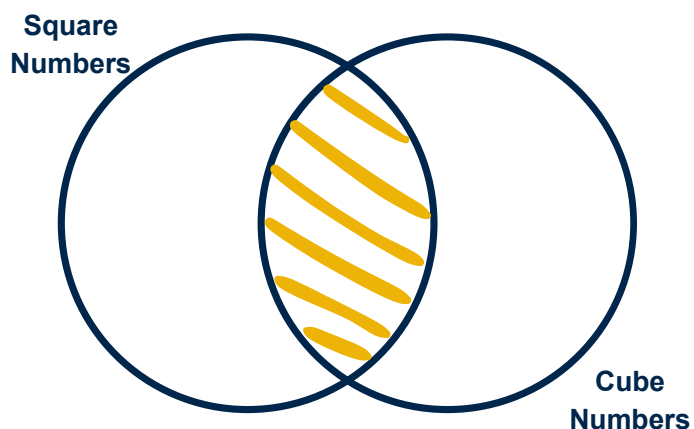
10

How many students swim and play football?

5

19

Look at the Venn diagram below.
It sorts numbers into whether they are cube numbers or square numbers?



What number could go in the yellow overlap?

1, 64

$1 = 1^2$

$1 = 1^3$

$64 = 8^2$

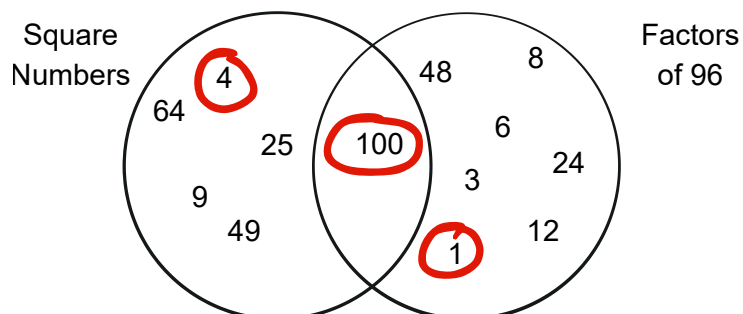
$64 = 4^3$



20

Look at the Venn diagram below.

It sorts numbers into whether they are square numbers or factors of 96



How many (if any) of the numbers in the Venn diagram have been placed in the wrong section? 3

END