1

[2002]

Circle all the **multiples of 8** in this list of numbers.

18   (32)   (56)   68   (72)

2

[2008]

Here is a number chart.

Circle the **smallest** number on the chart that is a multiple of **both** 2 and 7

71	72	73	74	75	76	77	78	79	80
81	82	83	(84)	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

3

[2016S]

Here is a diagram for sorting numbers.

Write **one number** in each box.

One is done for you.

	multiple of 5	**not** a multiple of 5
multiple of 3	30	3
not a multiple of 3	5	2

[MANY OTHER SOLUTIONS]

Write each number in its correct place on the diagram.

16 ✓   17 ✓   18 ✓   19 ✓

prime numbers   square numbers
                even
                numbers

17

19   18   16
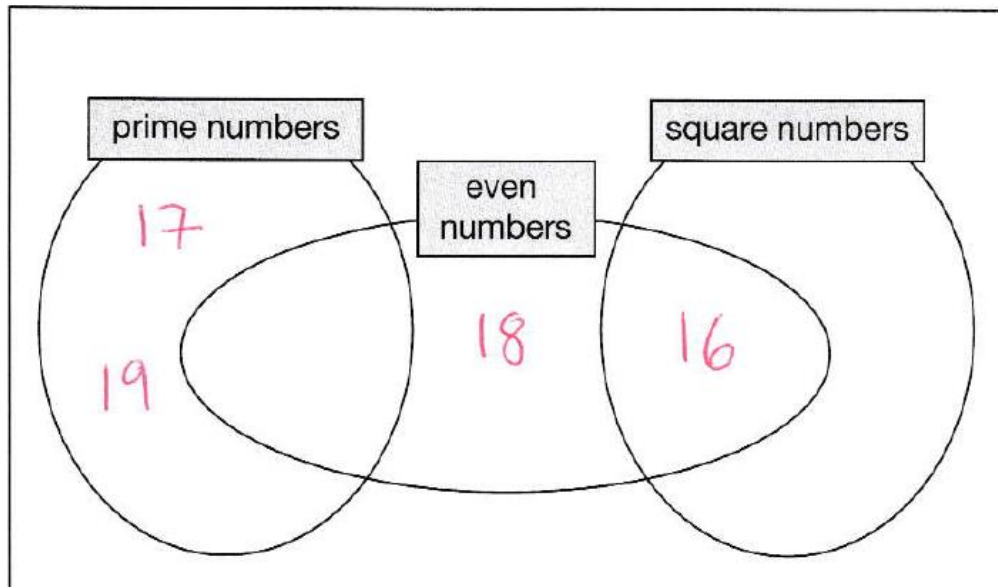
Write three factors of 30 that are **not** factors of 15

30: 1, 2, 3, 5, 6, 10, 15, 30   15: 1, 3, 5, 15

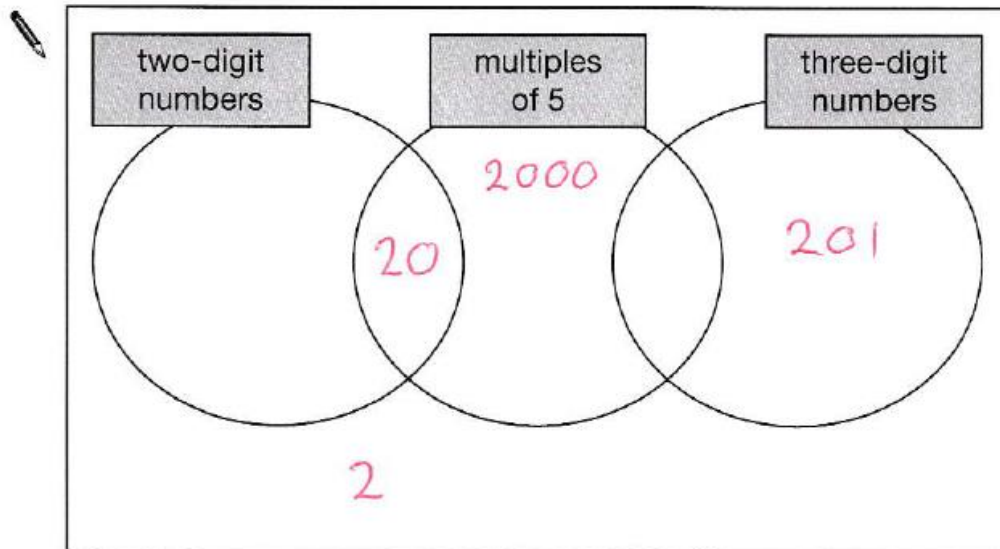2   6   10

[OR 30]

6

[2014]

Here is a diagram for sorting numbers.

Write **each** number in its correct place on the diagram.

2   20   201   2000

| two-digit numbers | multiples of 5 | three-digit numbers |

2000

20

201

2

7

[2013]

36 and 64 are both square numbers.

They have a sum of 100

1, 4, 9, 16, 25, 36, (49), 64, (81)

Find two **square** numbers that have a sum of **130**

49   and   81

8

[2004]

Here is a sorting diagram for numbers.

Write a number **less than 100** in each space.

	even	not even
a square number	16	9
not a square number	2	3

[MANY MORE ANSWERS]

10

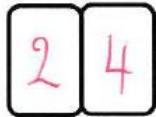[2010]

Here are six digit cards.

2   3   4   5   6   7
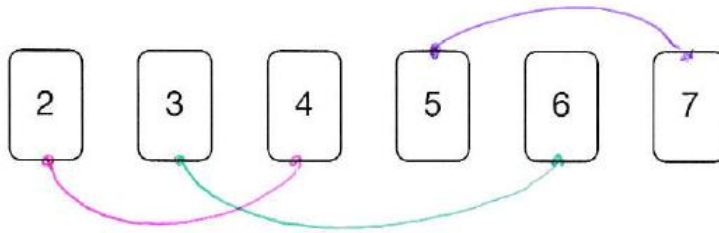
Use **all six** digit cards to make three multiples of 3 →

EACH PAIR MUST ADD TO A MULTIPLE OF 3

2 4   3 6   5 7

multiple of 3   multiple of 3   multiple of 3

[OR 42]   [OR 63]   [OR 75]

[1 mark]

14
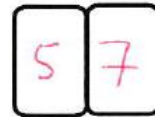
[2006]

Write these numbers in the correct places on the diagram.

5   6   7   8

[30]
|
1 × 30
|
2 × 15
|
3 × 10
|
5 × 6

factors of 30   factors of 40

6   5   8

7

[40]
|
1 × 40
|
2 × 20
|
4 × 10
|
5 × 8
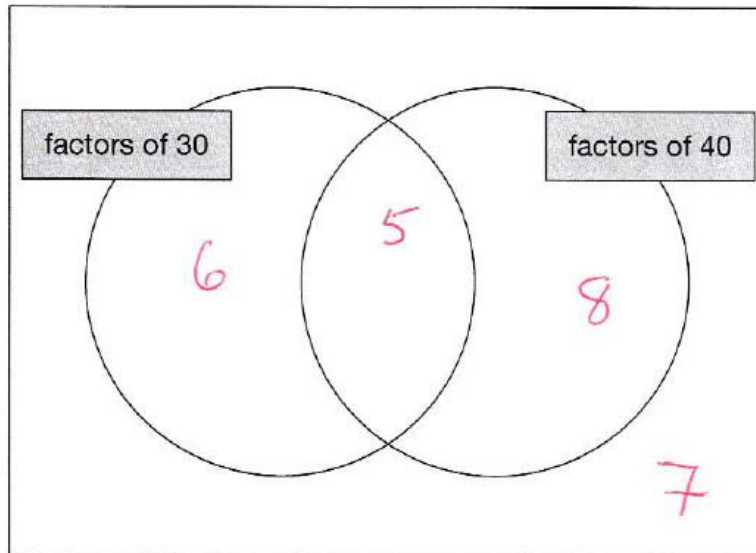
Here are four labels.

| even | multiples of 9 | not even | not multiples of 9 |

Write each label in the correct position on the sorting diagram below.

	MULTIPLES OF 9	NOT MULTIPLE OF 9
EVEN	72 54	56 84
NOT EVEN	63 45	49 75

Find two **square numbers** that total 45

$\boxed{9}$ + $\boxed{36}$ = 45

1, 4, ⑨, 16, 25, ㊱, ...

A **square** number and a **prime** number have a total of 22

What are the two numbers?

$\boxed{9}$ + $\boxed{13}$ = 22

square number ↓

prime number ↓

1, 4, ⑨, 16, ...

2, 3, 5, 7, 11, ⑬, 17, 19, ...