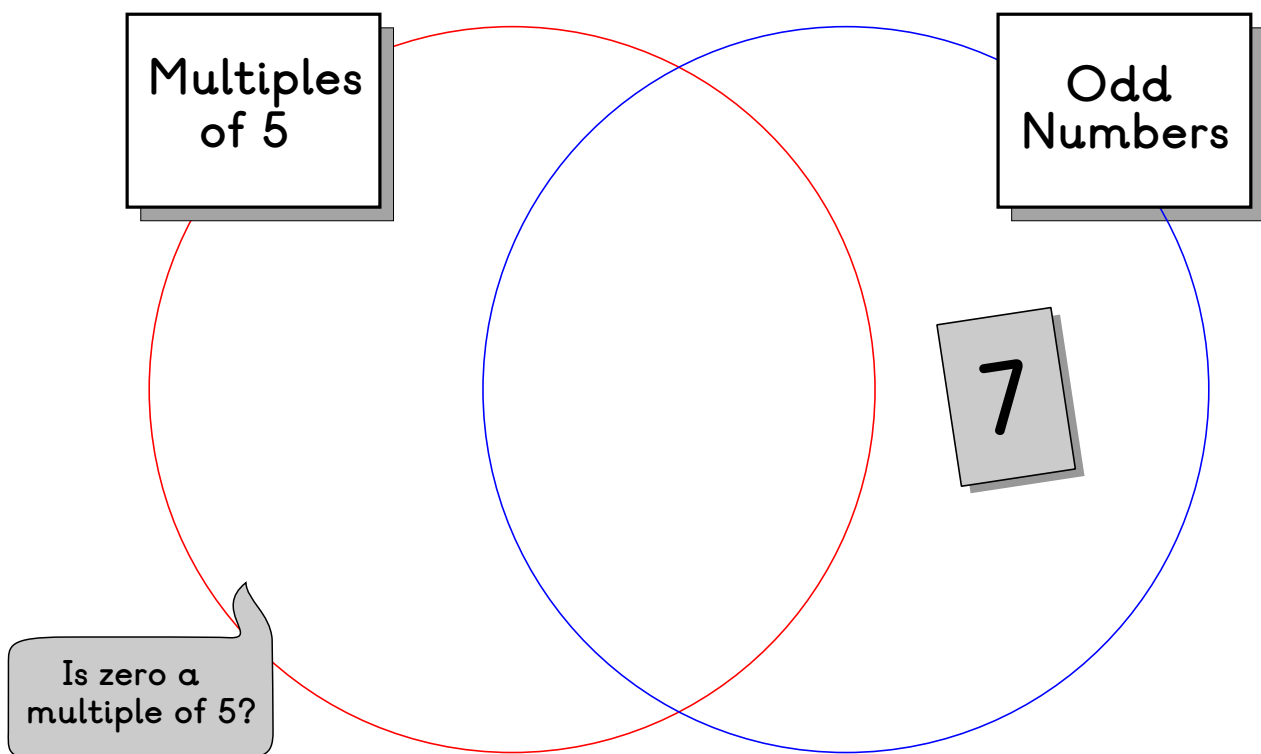# Properties of Numbers - 1

You will need one set of small number cards, the Sets Work Mat like the one below and a Number Properties Recording Sheet.

There are 4 regions on this mat, the three you can see inside the loops and the outside region.

❍ Place the property cards 'Multiples of 5' and 'Odd Numbers' in the spaces on the mat.

❍ Place each of your 10 number cards into the correct region, one at a time. One card has been placed for you. If a number is outside both of the sets then place it on the edge of the mat.
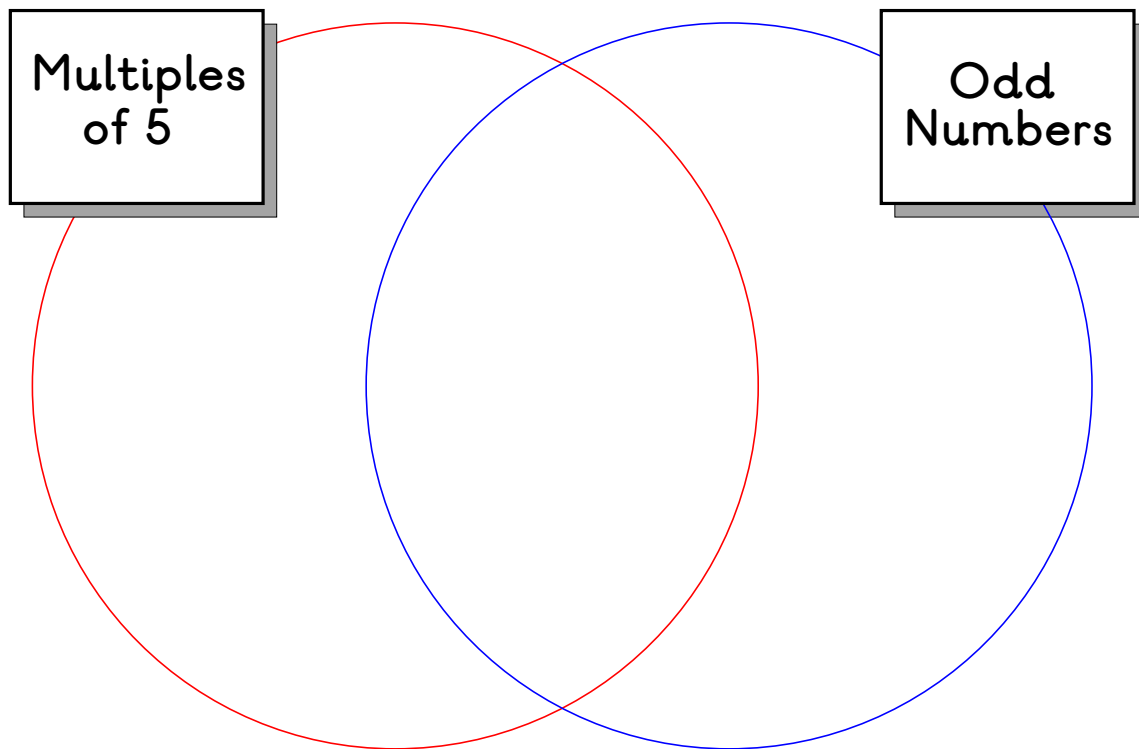
❍ Record your solution.

Multiples of 5

Odd Numbers

7

Is zero a multiple of 5?

❍ Complete these three activities in the same way.

1 Using the property cards 'Factors of 12' and 'Multiples of 3'

2 Using the property cards 'Multiples of 2' and 'Multiples of 3'.

3 Choose two property cards of your own.

Properties of Numbers – 2

You will need one set of small number cards, the sets work mat like the one on below and a Number Properties Recording Sheet.

❍ Place the property cards 'Multiples of 5' and 'Odd Numbers' in the spaces on the mat.

❍ Make five 2-digit numbers with your 10 number cards. You must have at least one 2-digit number in each of the four regions.
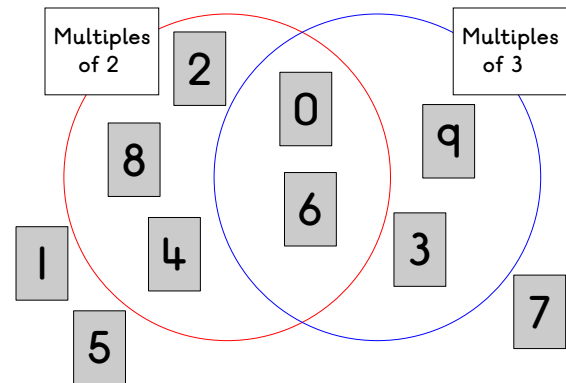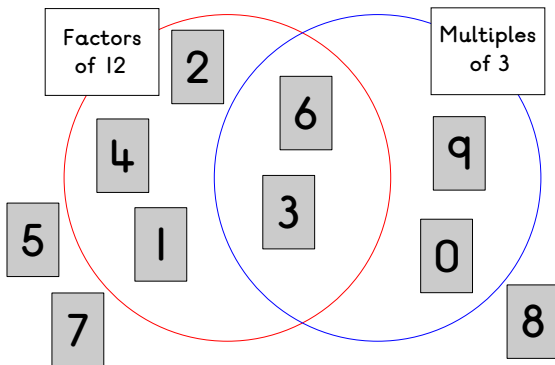
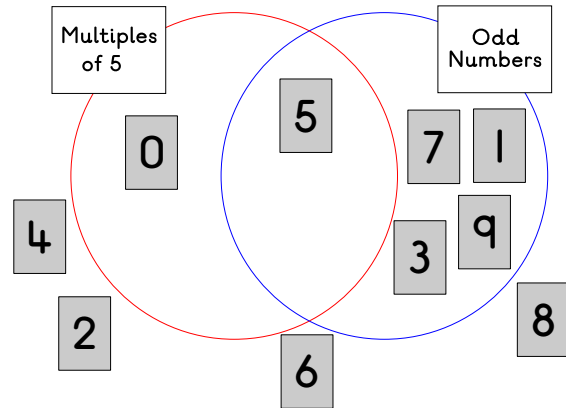❍ Record your solution.

Multiples of 5

Odd Numbers

❍ Complete these three activities in the same way.

1 Using the property cards, 'Factors of 24' and 'Multiples of 8'

2 Using the property cards, 'Multiples of 2' and 'Multiples of 3'.

3 Choose two property cards of your own.

Properties of Number - Answers

Activity 1

There should be ten number cards in each of these three solutions.

You may want to discuss with children why 0 is a multiple of every number but a factor of none of them.

Multiples of 5 — *Odd Numbers*
5 | 0 | 7 | 1 | 9 | 3 | 4 | 2 | 6 | 8

Factors of 12 — *Multiples of 3*
2 | 6 | 9 | 4 | 3 | 0 | 5 | 1 | 7 | 8

Multiples of 2 — *Multiples of 3*
2 | 0 | 9 | 8 | 6 | 1 | 4 | 3 | 5 | 7

Activity 2

There is more than one solution to each of these problems.

Encourage children to explore them fully.

Multiples of 5 — *Odd Numbers*
2 0 | 1 5 | 7 9 | 4 8 | 3 6

Factors of 36 — *Multiples of 8*
1 8 | 2 4 | 5 6 | 3 9 | 7 0

Multiples of 2 — *Multiples of 3*
1 6 | 2 4 | 3 0 | 5 7 | 8 9