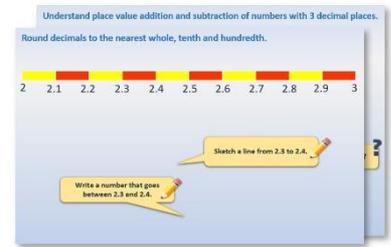


# Year 2: Week 3, Day 1

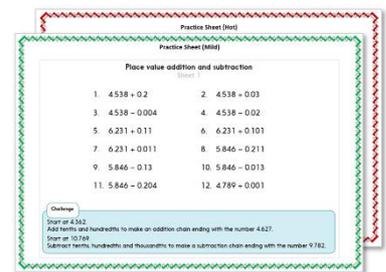
## Odd and even numbers

Each day covers one maths topic. It should take you about 1 hour or just a little more.

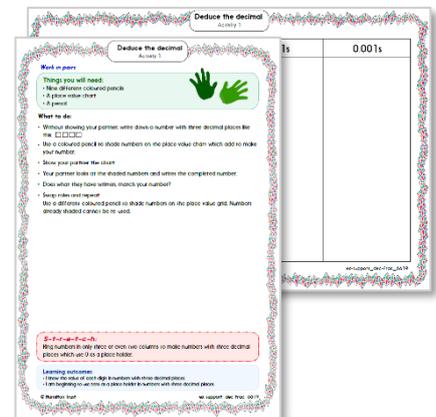
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!

Identify the value of the '4' in the following numbers:

(a) 3.407  
 (b) 4.821  
 (c) 0.043  
 (d) 5.104  
 (e) 48,739

---

How many times must Dan multiply 0.048 by 10 to get 48,000?

---

What number is one hundred times smaller than 0.4?

## Learning Reminders

Recognise even numbers.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
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

What can you say about the yellow numbers?

They are all **even** numbers.

Choose an even number that is less than 20.

Take this number of cubes and try to share them fairly with a friend.

**Even** numbers can be shared fairly.

## Learning Reminders

Recognise odd numbers.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
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

What can you say about the blue numbers?



They are all **odd** numbers.

Choose an odd number less than 20.

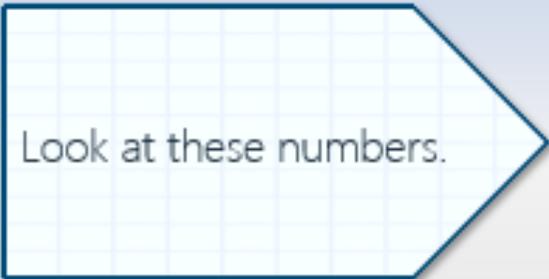


Take this number of cubes and try to share them fairly with a friend.

**Odd** numbers always leave an 'odd one' left over if you try to share them between 2 people.

## Learning Reminders

Recognise odd and even numbers.

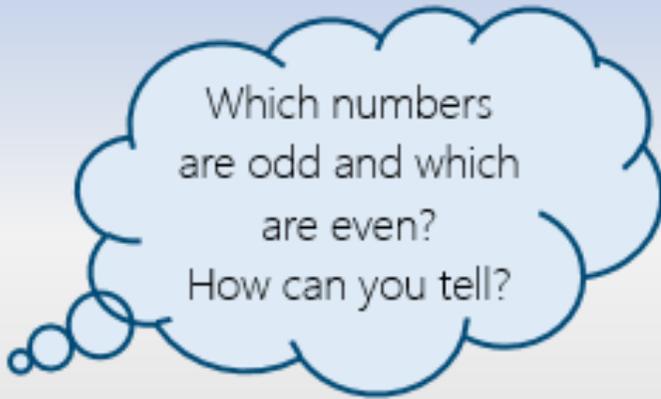


Look at these numbers.

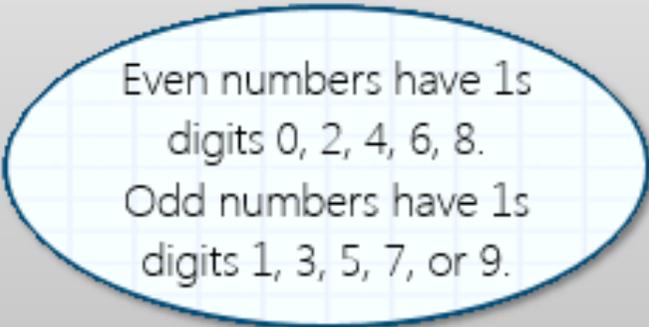
136

487

835



Which numbers  
are odd and which  
are even?  
How can you tell?



Even numbers have 1s  
digits 0, 2, 4, 6, 8.  
Odd numbers have 1s  
digits 1, 3, 5, 7, or 9.

## Practice Sheet Mild

### Odds and evens

Make 2-digit odd and even numbers from the following digits:

2

7

4

9

3

6

0

5

#### Challenge

Use the cards to make as many even 3-digit numbers between 400 and 500 as you can.

## Practice Sheet Hot

### Sorting numbers

Can you sort the following numbers for each sorting machine? Some numbers can go in more than one box.

60, 45, 88, 39, 90, 76, 55, 31, 50, 22, 64, 13

Multiples of 10

Multiples of 2

Even numbers

Odd numbers

Multiples of 5

#### Challenge

Think of three numbers that will fit into at least three of the sorting machines. Can you think of any numbers that would fit into four of the sorting machines?

# Practice Sheet Answers

## Odds and evens (mild)

Odd 2-digit numbers could include: 23, 25, 27, 29, 35, 37, 39, 43, 45, 47, 49, 53, 57, 59, 67, 69, 63, 65, 73, 75, 79

Even 2-digit numbers could include: 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96

### Challenge

Use the cards to make as many even 3-digit numbers between 400 and 500 as you can.

402, 406, 420, 426, 460, 462

## Sorting numbers (hot)

Multiples of 10: 60, 50 90

Multiples of 2: 60, 88, 90, 76, 50, 22, 64

Even numbers: 60, 88, 90, 76, 50, 22, 64

Odd numbers: 45, 39, 55, 31, 13

Multiples of 5: 60, 90, 45, 55, 50

### Challenge

Think of three numbers that will fit into at least three of the sorting machines. e.g. Into Multiples of 10, Multiples of 2 and even numbers, any 2-digit number ending in a zero, e.g. 50, 70, 80, etc.

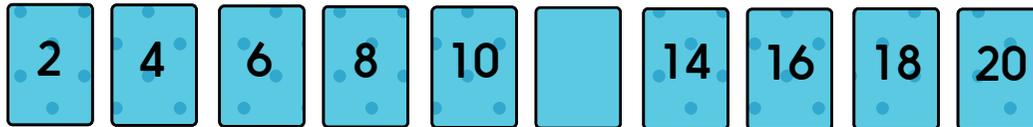
Can you think of any numbers that would fit into four of the sorting machines? e.g. Into Multiples of 10, Multiples of 2, Multiples of 5 and even numbers, 10, 20, 30, etc.

## A Bit Stuck? Blues and twos

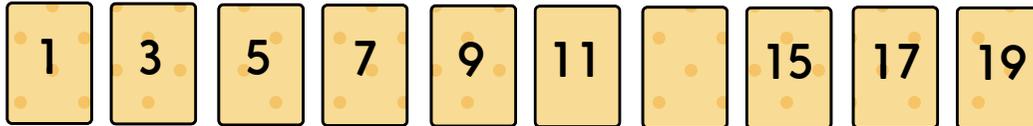
### Work in pairs

#### What to do:

- Take the blue cards and put them in order.
- Count in 2s along the line of cards.
- Close your eyes whilst your partner turns over a card in the line.
- Open your eyes. Which number do you think your partner turned over? Count in 2s along the line to check.
- Now turn over the card. Were you right? If so, collect a cube.
- Now swap roles, so you turn over a card for your partner.
- Keep taking turns.
- Who collected most cubes?



- Now play with the yellow cards.



### **S-t-r-e-t-c-h:**

Shuffle the blue cards. Take one. Count in 2s to that number. Your partner carries on the count to 20. Swap roles and use the yellow cards

### Things you will need:

- A set of blue cards (2, 4, 6... 20)
- A set of yellow cards (1, 3, 5... 19)



### Learning outcomes:

- I can count in 2s from 1 and 2.
- I am beginning to count in 2s from other numbers.

A Bit Stuck?  
Blues and twos

2

4

6

8

10

12

14

16

18

20

A Bit Stuck?  
Blues and twos

1

3

5

7

9

11

13

15

17

19

## Check your understanding: Questions

How many numbers between 0 and 30 (including 30) are even?  
Are there the same number of odd numbers?

---

True or False: Odd numbers are always made of 'a multiple of 2 and 1 more'?

---

Write even or odd beside each number:

- a) 368
- b) 492
- c) 661

How did you know the answer?

Fold here to hide answers

---

---

## Check your understanding Answers

How many numbers between 0 and 30 (including 30) are even?

15 numbers - 2, 4, ..... 30.

Are there the same number of odd numbers?

Also 15 - 1, 3, 5 .... 29.

---

True or False: Odd numbers are always made of 'a multiple of 2 and 1 more'? This is true since multiples of 2 are even and an odd number always follows an even one.

---

Write even or odd beside each number:

- a) 368 even
- b) 492 even
- c) 661 odd

How did you know the answer? By checking the 1s digit.