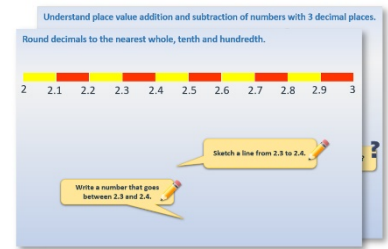


Week 14, Day 1

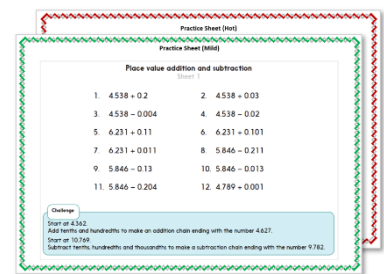
Double 2-digit numbers

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

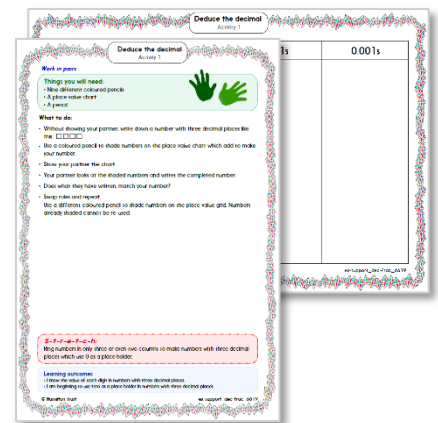
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



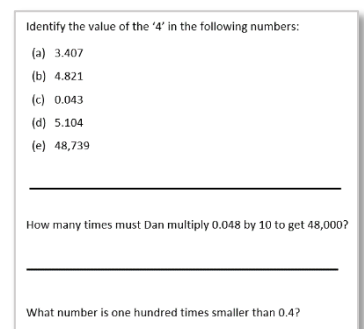
2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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!



Learning Reminders

Revise doubling numbers to 50 using partitioning.

What is **double 27**?

Double the 10s.
Double the 1s.

Add your two answers.

54

We worked it out using **partitioning**.

Partitioning means we split the number into 10s and 1s.

We **doubled** each part then **recombined** the parts.

Revise doubling numbers to 50 using partitioning.

Have a go at doubling these numbers using **partitioning**.

36 28 37 48

39 26 49

Revise doubling numbers to 50 using partitioning.

Spoiler Alert Answers!

Have a go at doubling these numbers using **partitioning**.

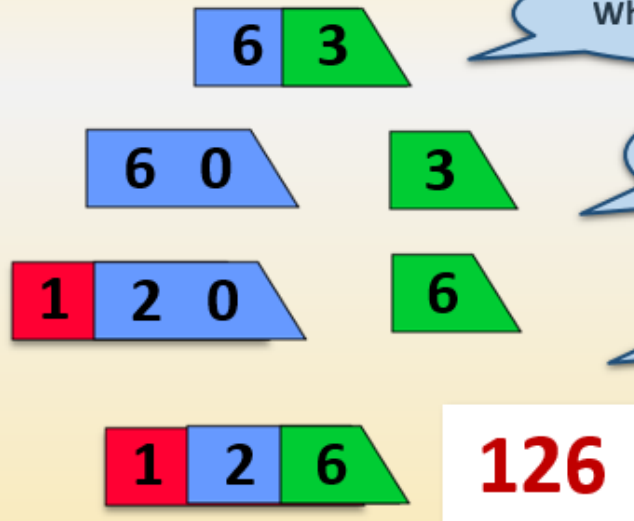
36 28 37 48 96

72 56 74 49 98

39 78 26 52

Learning Reminders

Revise doubling numbers to 100 using partitioning.



What is **double 63**?

Double the 10s.
Double the 1s.

Add your two answers.

Revise doubling numbers to 100 using partitioning.

What happens when we try to double these numbers using **partitioning**?

- 85
- 97
- 78
- 64
- 69
- 59
- 76

Revise doubling numbers to 100 using partitioning.

What happens when we try to double these numbers using **partitioning**?

The answers are all greater than 100.

Spoiler Alert Answers!

- 85
- 170
- 97
- 194
- 78
- 156
- 64
- 128
- 69
- 138
- 59
- 118
- 76
- 152

Practice Sheet Mild

Doubling numbers

Double the following numbers using partitioning:

1. 14

2. 22

3. 36

4. 27

5. 44

6. 39

Challenge

Now try these:

7. 55

8. 73

9. 48

10. 61

Practice Sheet Hot

Doubling numbers

Double the following numbers using partitioning:

1. 39

2. 52

3. 73

4. 61

5. 48

6. 57

Challenge

Now try these:

7. 75

8. 66

9. 89

10. 97

Practice Sheets Answers

Doubling numbers (mild)

1.	14	$10 + 10 = 20$	$4 + 4 = 8$	So double 14 is $20 + 8 = 28$
2.	22	$20 + 20 = 40$	$2 + 2 = 4$	So double 22 is $40 + 4 = 44$
3.	36	$30 + 30 = 60$	$6 + 6 = 12$	So double 36 is $60 + 12 = 72$
4.	27	$20 + 20 = 40$	$7 + 7 = 14$	So double 27 is $40 + 14 = 54$
5.	44	$40 + 40 = 80$	$4 + 4 = 8$	So double 44 is $80 + 8 = 88$
6.	39	$30 + 30 = 60$	$9 + 9 = 18$	So double 39 is $60 + 18 = 78$

Challenge

7.	55	$50 + 50 = 100$	$5 + 5 = 10$	So double 55 is $100 + 10 = 110$
8.	73	$70 + 70 = 140$	$3 + 3 = 6$	So double 73 is $140 + 6 = 146$
9.	48	$40 + 40 = 80$	$8 + 8 = 16$	So double 48 is $80 + 16 = 96$
10.	61	$60 + 60 = 120$	$1 + 1 = 2$	So double 61 is $120 + 2 = 122$

Doubling numbers (hot)

1.	39	$30 + 30 = 60$	$9 + 9 = 18$	So double 39 is $60 + 18 = 78$
2.	52	$50 + 50 = 100$	$2 + 2 = 4$	So double 52 is $100 + 4 = 104$
3.	73	$70 + 70 = 140$	$3 + 3 = 6$	So double 73 is $140 + 6 = 146$
4.	61	$60 + 60 = 120$	$1 + 1 = 2$	So double 61 is $120 + 2 = 122$
5.	48	$40 + 40 = 80$	$8 + 8 = 16$	So double 48 is $80 + 16 = 96$
6.	57	$50 + 50 = 100$	$7 + 7 = 14$	So double 57 is $100 + 14 = 114$

Challenge

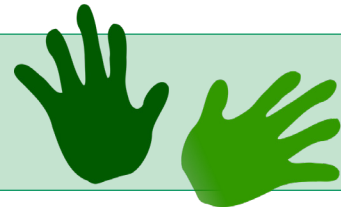
7.	75	$70 + 70 = 140$	$5 + 5 = 10$	So double 76 is $140 + 10 = 150$
8.	66	$60 + 60 = 120$	$6 + 6 = 12$	So double 66 is $120 + 12 = 132$
9.	89	$80 + 80 = 160$	$9 + 9 = 18$	So double 89 is $160 + 18 = 178$
10.	97	$90 + 90 = 180$	$7 + 7 = 14$	So double 97 is $180 + 14 = 194$

A Bit Stuck? Doubles decisions

Work in pairs

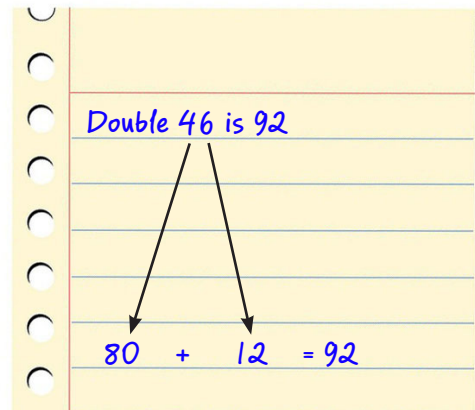
Things you will need:

- Two sets of 10s and 1s place value cards
- A pencil



What to do:

- Choose a number from the grid to double. Make the number with place value cards.
- Partition, double each part then combine your answers. If you find it helpful, draw a jotting.
- Write the doubling sentence.
- Score 1 point if the 10s digit in the answer is even. Score 2 points if the 10s digit in the answer is odd.
- Repeat for as many numbers as you can. Can you score more than 10 points altogether?



26	34	49	27
37	23	15	41
18	45	32	46

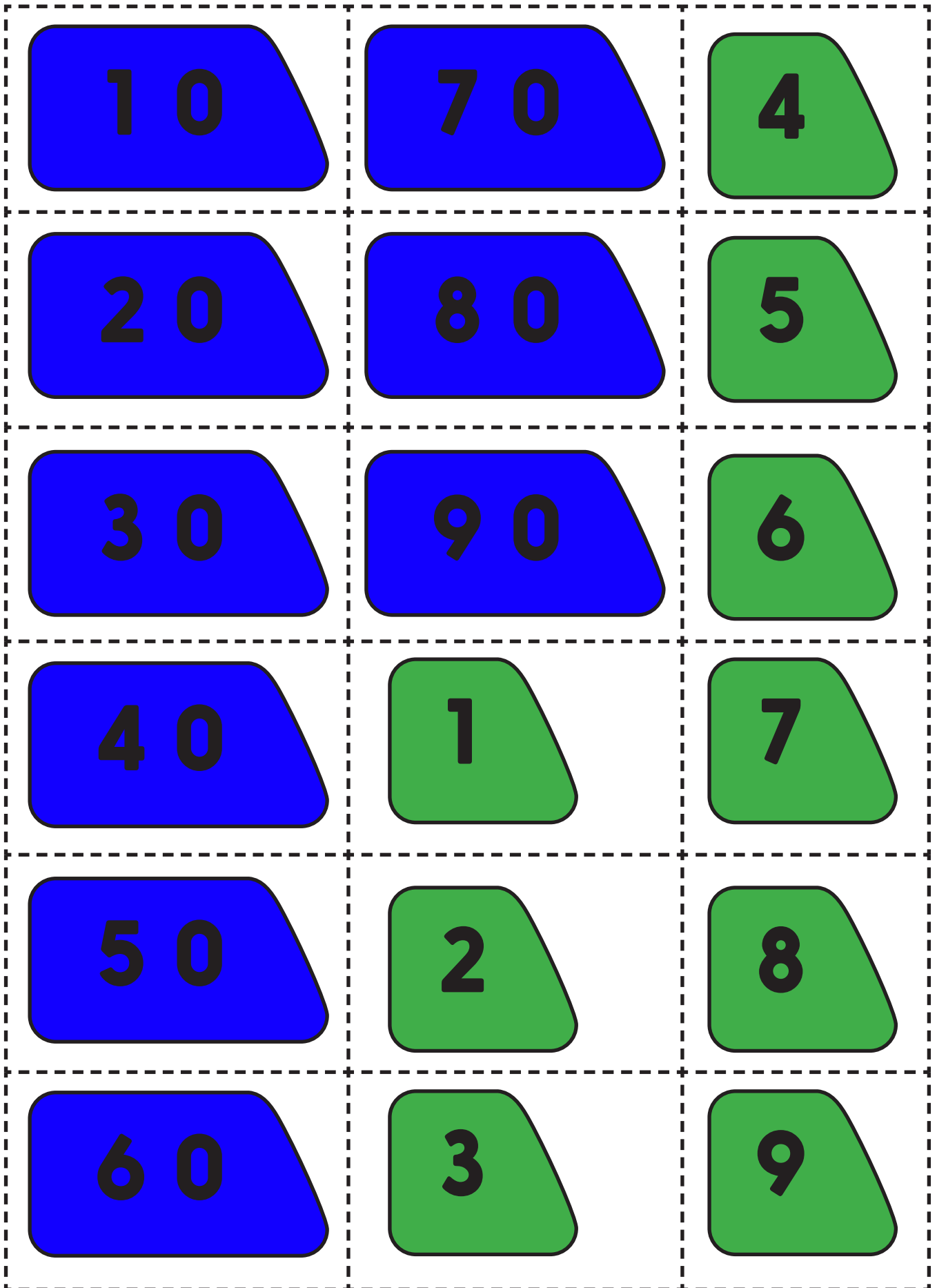
S-t-r-e-t-c-h:

Write a number not on the grid, which when doubled will give a 0 in the 1s place.

Learning outcomes:

- I can double 2-digit numbers up to 50 (including those where the 1s come to more than 10).

Place Value Cards



Check your understanding Questions

Write the missing number in each diagram.

?	
56	56

?	
74	74

Double 1. Double your answer. Carry on doubling your answer until you get an answer greater than 100.

Double 3. Double your answer. Carry on doubling your answer until you get an answer greater than 100.

Fold here to hide answers.

Check your understanding Answers

Write the missing number in each diagram.

112	
56	56

148	
74	74

Double 1. Double your answer. Carry on doubling your answer until you get an answer greater than 100.

2, 4, 8, 16, 32, 64, 128

Double 3. Double your answer. Carry on doubling your answer until you get an answer greater than 100.

3, 6, 12, 24, 48, 96, 192