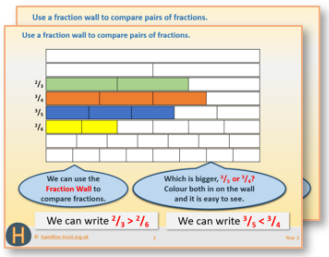
Week 7, Day 1

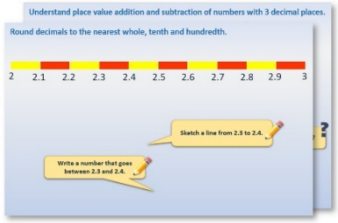
Multiply multiples of 10 and 100 (1)

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

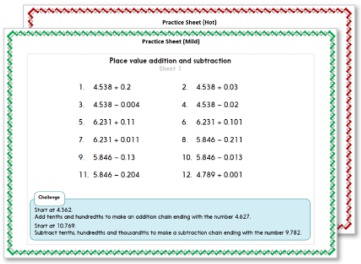
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



OR start by carefully reading through the **Learning Reminders**.



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



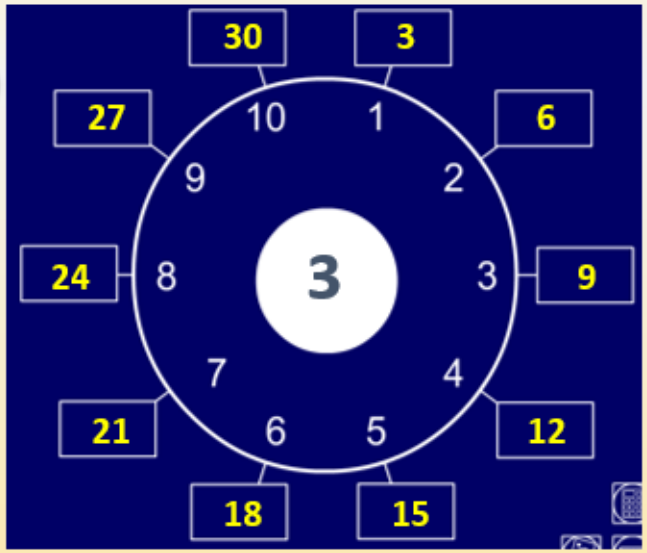
3. Finding it tricky? That's OK… have a go with a grown-up at **A Bit Stuck?**

4. Think you've cracked it? Whizzed through the Practice Sheets?
Have a go at the **Investigation**…

Learning Reminders

Use tables facts and place value to multiply multiples of 10 by 1-digit numbers.

Let's count around the number dial in 3s...

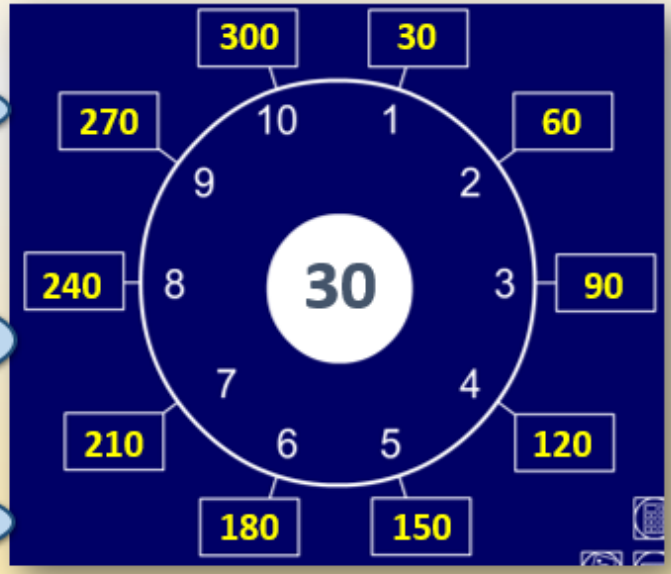


Use tables facts and place value to multiply multiples of 10 by 1-digit numbers.

Now let's try 30s...

What was the same? What was different?

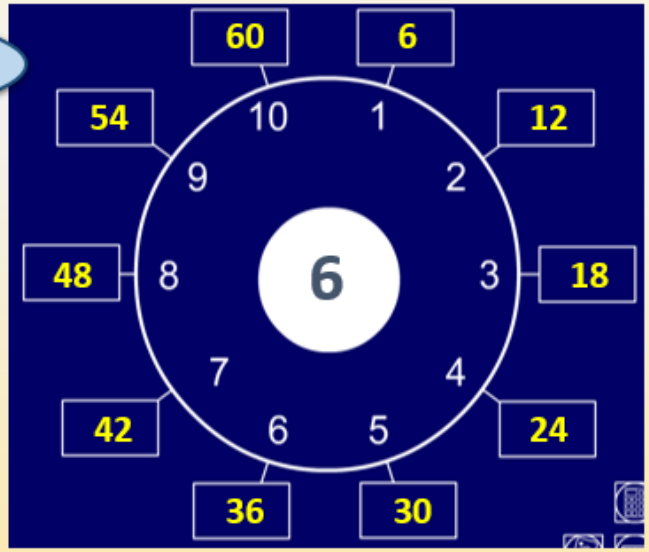
How many times bigger are the 30s?



Learning Reminders

Use tables facts and place value to multiply multiples of 10 by 1-digit numbers.

Let's count around the number dial in 6s...

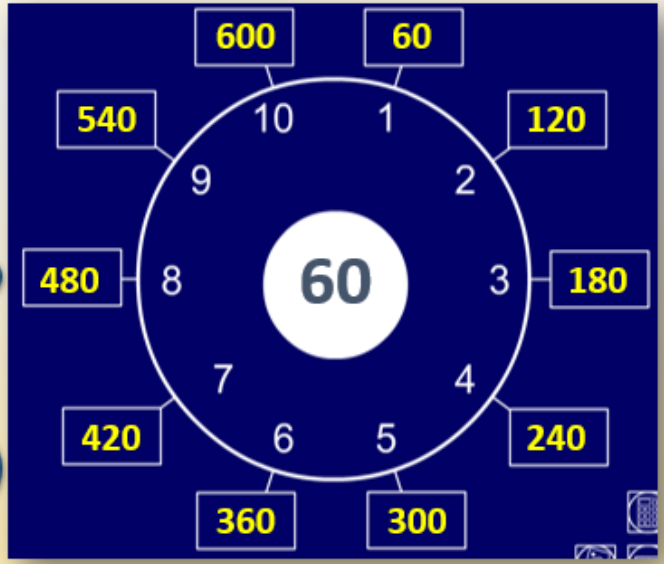


Use tables facts and place value to multiply multiples of 10 by 1-digit numbers.

Now let's try 60s...

How many times bigger are the 60s?

If you know the 6 times table, you can use place value to work out the 60s!



Learning Reminders

Use tables facts and place value to multiply multiples of 10 and 100 by 1-digit numbers.

0	9	18	27	36	45	54	63	72	81	90
0	90	180	270	360	450	540	630	720	810	900
0	900	1800	2700	3600	4500	5400	6300	7200	8100	9000

Let's count in 9s on the counting stick.

Now let's try it in 90s.

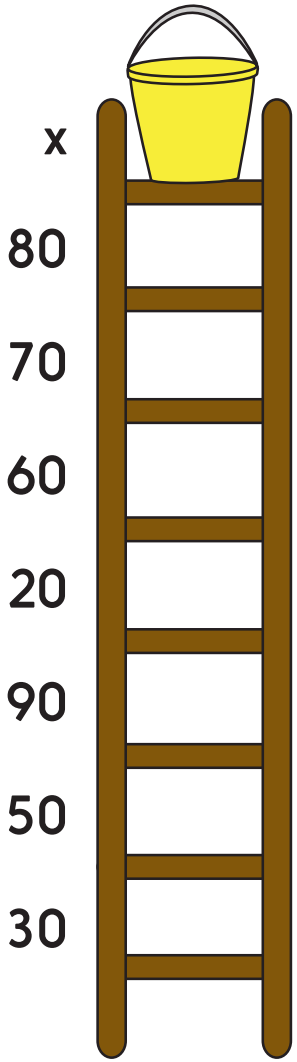
Now let's try it in 900s!

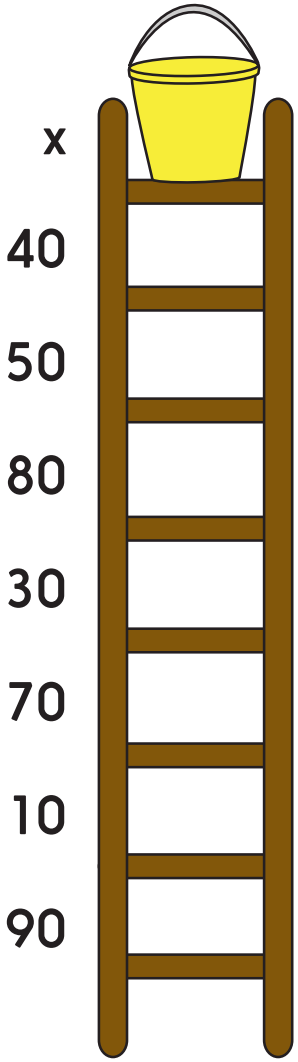
If you know the 9 times table you can use place value to find the 90s and 900s.

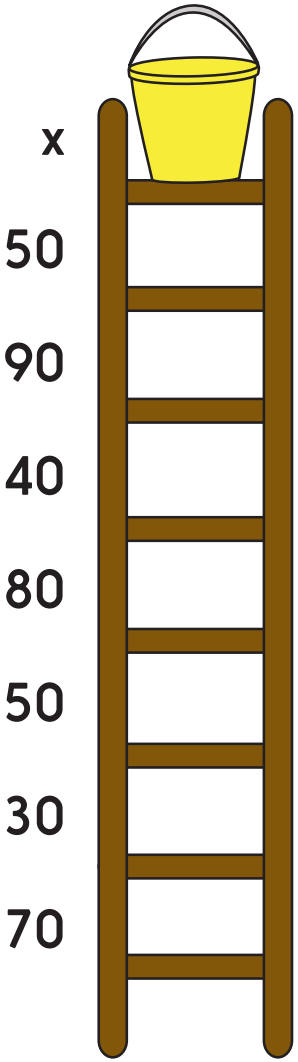
Practice Sheet Mild

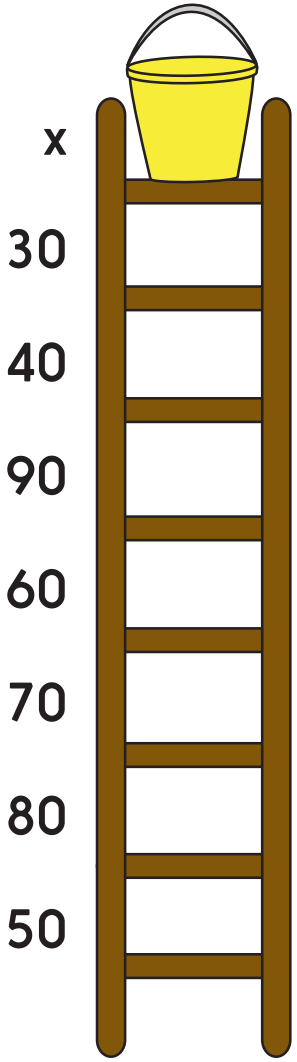
Ladders of 10s

Roll a dice (if you roll 1, roll again). Write the number rolled in the bucket at the top of the ladder. Now multiply each multiple of 10 on the ladder by this number. Repeat for each ladder, making sure you put a different number in the bucket each time.









Practice Sheet Hot

Multiplication by 10s and 100s

Answer as many of these questions as you can!

1	3 x 40	2	6 x 40	3	2 x 400	4	3 x 400
5	5 x 30	6	4 x 30	7	6 x 300	8	7 x 300
9	4 x 50	10	6 x 50	11	3 x 500	12	7 x 500
13	3 x 60	14	6 x 60	15	4 x 600	16	8 x 600
17	3 x 70	18	6 x 70	19	4 x 700	20	8 x 700
21	5 x 80	22	8 x 80	23	9 x 800	24	7 x 800
25	2 x 90	26	5 x 90	27	6 x 900	28	9 x 900

Challenge

Write as many mulitplication facts as you can with the answer 480.
Repeat for 2400.

Practice Sheets Answers

Ladders of 10s (mild)

Children's answers will vary depending on the number of the dice.

Multiplication by 10s and 100s (hot)

1. 120	2. 240	3. 800	4. 1200
5. 150	6. 120	7. 1800	8. 2100
9. 200	10. 300	11. 1500	12. 3500
13. 180	14. 360	15. 2400	16. 4800
17. 210	18. 420	19. 2800	20. 5600
21. 400	22. 640	23. 7200	24. 5600
25. 180	26. 450	27. 5400	28. 8100

Challenge

480 = 1 x 480, 2 x 240, 3 x 160, 4 x 120, 5 x 96, 6 x 80, 8 x 60, 10 x 48, 12 x 40, 15 x 32, 16 x 30, 20 x 24

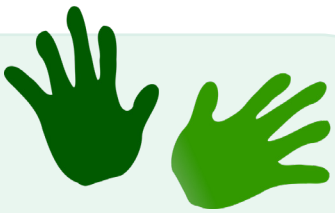
2400 = e.g. 6 x 400, 4 x 600, 3 x 800, 8 x 300, 2 x 1200, 12 x 200, 60 x 40, 40 x 60, 30 x 80, 80 x 30, 20 x 120

A Bit Stuck?
Moving multiplications

Work in pairs

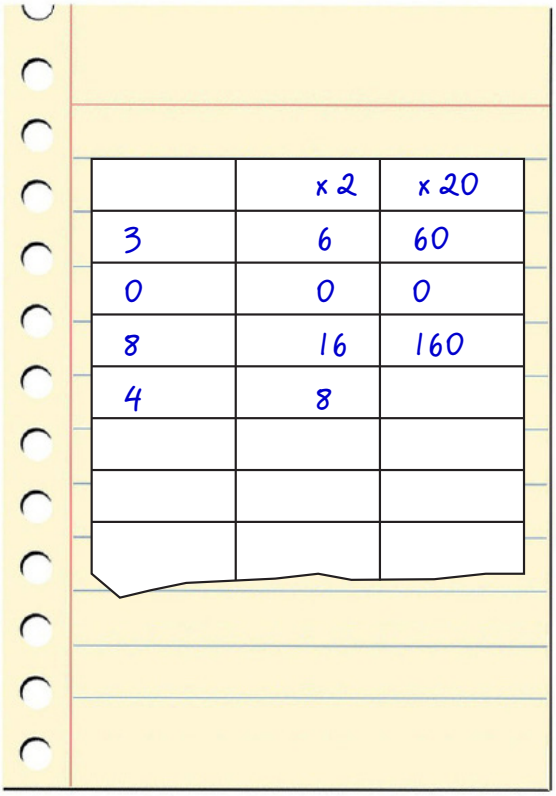
Things you will need:

- A set of 0 to 12 cards
- Multiples strips
- A pencil



What to do:

- Choose a pair of times tables. Find that table.
- Shuffle a pack of 0 to 12 cards and place face down.
- Turn the cards over one at a time.
- Write the number in the left column of the table.
- Multiply that number by the two numbers in the table, e.g. 2 and 20.
- Write the answers on the table.
- Repeat with another pair of tables.



	x 2	x 20
3	6	60
0	0	0
8	16	160
4	8	

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

Try and fill in ALL the tables!

Learning outcomes:

- I can use times tables and place value to multiply by 20 and 50.
- I am beginning to multiply by 30 and 40.

A Bit Stuck?
Moving multiplications

	x2	x20

	x5	x50

A Bit Stuck?
Moving multiplications

	x3	x30

	x4	x40

Investigation
Multiplication madness

- Choose a number. Write a multiplication with this as an answer, e.g. Choose 240, write 4 x 60 = 240.
- Write as many other multiplications as you can with this same answer.
- Repeat for a number which you think might have **more** multiplications.
- Repeat for a number which you think might have **fewer** multiplications.

Now for the mad bit...

- Choose other numbers and just write as many multiplications as you can with these answers.
- Fill the page as quickly as you can!