Year 3
Maths
30th June 2020

Lesson Aims

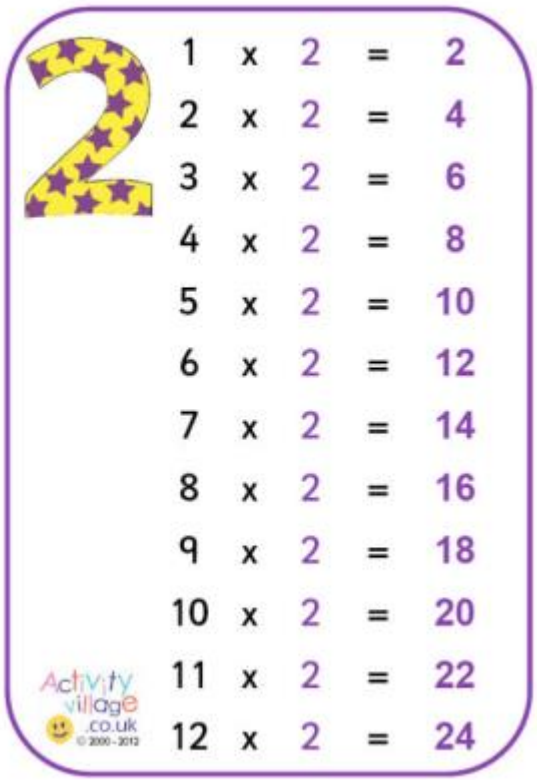
- SC: To be able to use formal methods of addition and subtraction.

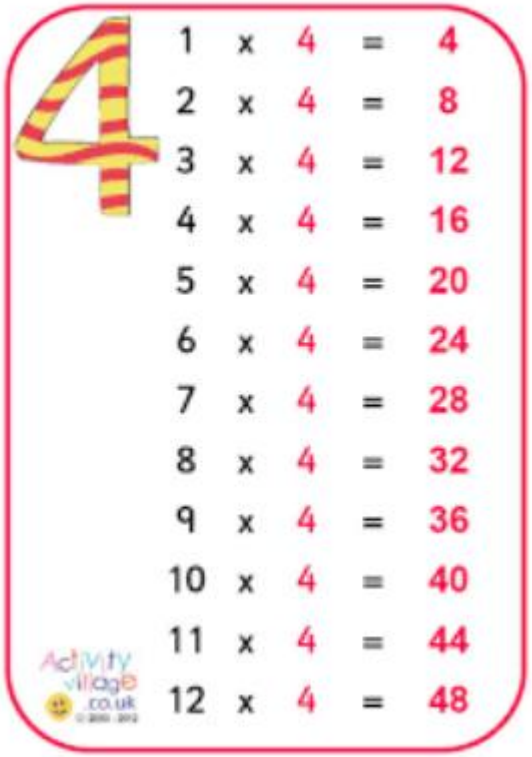
- LO: I can add the units first and carry the tens for addition.
- I can add the tens and carry the hundreds for addition.
- I can exchange the tens for subtraction.
- I can exchange the hundreds for subtraction.

- Please note this lesson is split into two halves. In school, we will tackle the addition learning and questions, then the subtraction learning questions.

Fluency Starter

What do you notice about 2 and 4 x table?





Fluency Starter Answers

- The 4 x table answers are double those of the 2 x table.

Fluency Starter

- Now answer these questions:

- 4 x 2 = 4 x 4 =
- 6 x 2 = 6 x 4 =
- 10 x 2 = 10 x 4 =
- 7 x 2 = 7 x 4 =

Fluency Starter Answers

- Now answer these questions:

- 4 x 2 = **8** 4 x 4 = **16**
- 6 x 2 = **12** 6 x 4 = **24**
- 10 x 2 = **20** 10 x 4 = **40**
- 7 x 2 = **14** 7 x 4 = **28**

Main Teaching

- How will you solve this?

234 + 137 =

Think about using expanding addition, jottings or contracted addition.

Main Teaching

234 + 137 (only exchanging the units)

Partition the numbers into hundreds, tens and units, make sure you leave a space between each number as this allows for space to exchange the ten units for one ten. Add the numbers at the bottom to get the answer

2	0	0		3	0		4	
1	0	0		3	0		7	+
3	0	0		6	0	1	1	

234 + 137 =

2	3	4
1	3	7
3	7	1
	1	

Main Teaching

- How will you solve this?

237 + 187 =

Think about using expanding addition, jottings or contracted addition.

Main Teaching

237 + 187 (exchanging the tens and the hundreds)

2	0	0		3	0		7	
1	0	0		8	0		7	+
3	0	0	1	1	0	1	4	

Partition the numbers into hundreds, tens and units, make sure you leave a space between each number as this allows for space to exchange the ten units for one ten and the ten tens to a hundred. Add the numbers at the bottom to get the answer.

237 + 187 =

2	3	7
1	8	7
4	2	1
1	1	

Fluency

- Try these:
- 146 + 235 =
- 268 + 273 =
- 564 + 278 =

Fluency Answers

- Answers:
- 146 + 235 = **381**
- 268 + 273 = **541**
- 564 + 278 = **842**

Main Teaching

- How will you solve this?

342 - 163 =

Think about using expanding subtraction, jottings or contracted subtraction.

Main Teaching

2 – 3 you can't do so you have to exchange a ten for ten units. 12 – 3 = 9

30 – 60 you can't do so you have to exchange 100 for 10 tens. 130 – 60 = 70

200 – 100 = 100

Make sure the children cross out the numbers they have exchanged and write the new numbers otherwise they get the wrong answer!

342 – 163 = 179

2	0	0	1	3	0			
~~3~~	~~0~~	~~0~~		~~4~~	~~0~~	1	2	
1	0	0		6	0		3	+
1	0	0		7	0		9	

Main Teaching

- How will you solve this?

332 - 146 =

Think about using expanding subtraction, jottings or contracted subtraction.

Fluency

323 - 146 = 197

~~23~~	~~13~~	13
1	4	6
1	9	7

Fluency Activity

- Try these:
- 268 – 145 =
- 743 – 225 =
- 523 – 136 =

Fluency Answers

- Answers:
- 268 – 145 = **123**
- 743 – 225 = **518**
- 523 – 136 = **387**

Activity

- Please answer the questions on TUESDAY MATHS WORKSHEET.

- Have a go at the challenge if you have time.

Activity Answers

- 346 + 137 = **483**
- 646 + 264 = **910**
- 486 - 155 = **331**
- 646 - 261 = **385**

255 + 276 = **531**

1478 + 345 = **1133**

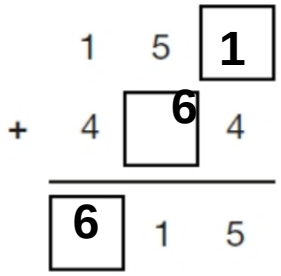
465 - 236 = **229**

1582 - 376 = **1206**

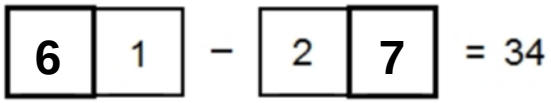
Challenge Answers

- Ben has 92 cards. Sam gave him 10 more. Florence gave him 100 more. How many cards does Ben have now?
- 92 + 10 + 100 = **202**

Write the three missing digits to make this **addition** correct.



Write the two missing digits.



- A pack of paper has 150 sheets.
- 4 children each take 7 sheets.
- How many sheets of paper are left in the packet?
- **4 x 7 = 28, 150 – 28 = 122**

Review

612 sweets were in the jar and 235 were put in bags for the summer fair. How many were left?

I bought an X Box for £258, two games for £76 and a football for £20. How much money did I spend altogether?

Review Answers

612 sweets were in the jar and 235 were put in bags for the summer fair. How many were left?

612 – 235 = 377

I bought an X Box for £258, two games for £76 and a football for £20. How much money did I spend altogether?

258 + 76 + 20 = 162