



Progression in Multiplication and Division

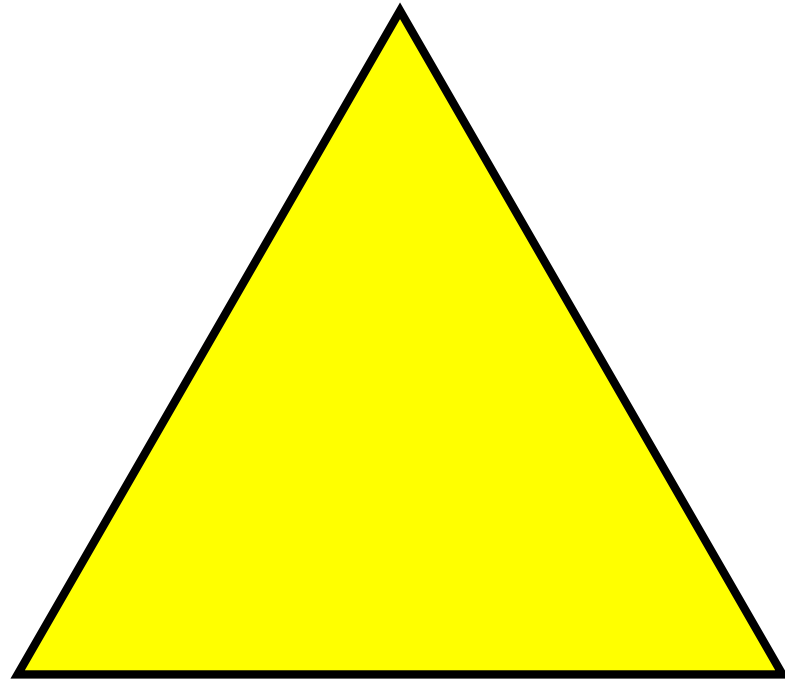


Warm up

- Hit the button times tables
- bubble multiples



If I know...



Multiplication

- What is it?
- When do we use it?
- Why is it important?



Progression

- Order the examples on the tables



Times tables

- Pattern
- Order

	1x	2x	3x	4x	5x	6x
1	1	2	3	4	5	6
2	2	4	6	8	10	12
3	3	6	9	12	15	18
4	4	8	12	16	20	24
5	5	10	15	20	25	30
6	6	12	18	24	30	36
7	7	14	21	28	35	42
8	8	16	24	32	40	48
9	9	18	27	36	45	54
10	10	20	30	40	50	60
11	11	22	33	44	55	66
12	12	24	36	48	60	72
7x	7	14	21	28	35	42
8x	8	16	24	32	40	48
9x	9	18	27	36	45	54
10x	10	20	30	40	50	60
11x	11	22	33	44	55	66
12x	12	24	36	48	60	72



Using & applying multiplication

- Why do we teach word problems?



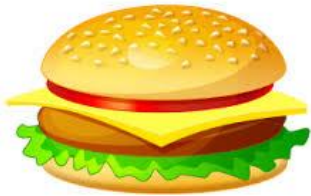
Now try these

- 1 cinema ticket costs £8. There are 4 of us going.

How much will the tickets cost?



- Burgers cost £4. Mr Smith buys 4 burgers. How much does he spend?



- I have 4 boxes with 10 candles in each. I also have 3 boxes with 5 candles in each. How many candles do I have altogether?



Division

- What are the **problems** children have with division?



Progression

- What do you think the progression might be in division?
- Draw / write some examples



Links & Patterns

- Times tables
- Inverse of multiplication



Key vocabulary



Division

- Grouping
- Sharing
- Repeated subtraction

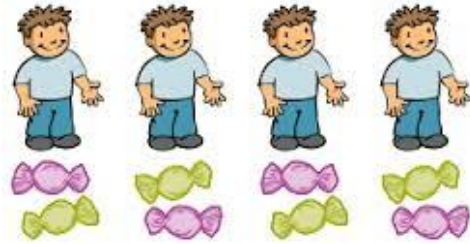
Multiplication

- Groups of
- Lots of
- Repeated addition
- product

How can we multiply & divide at home?



- Sharing (toys, food etc) link to division



- Shopping (lots of, packs of etc) link to multiplication



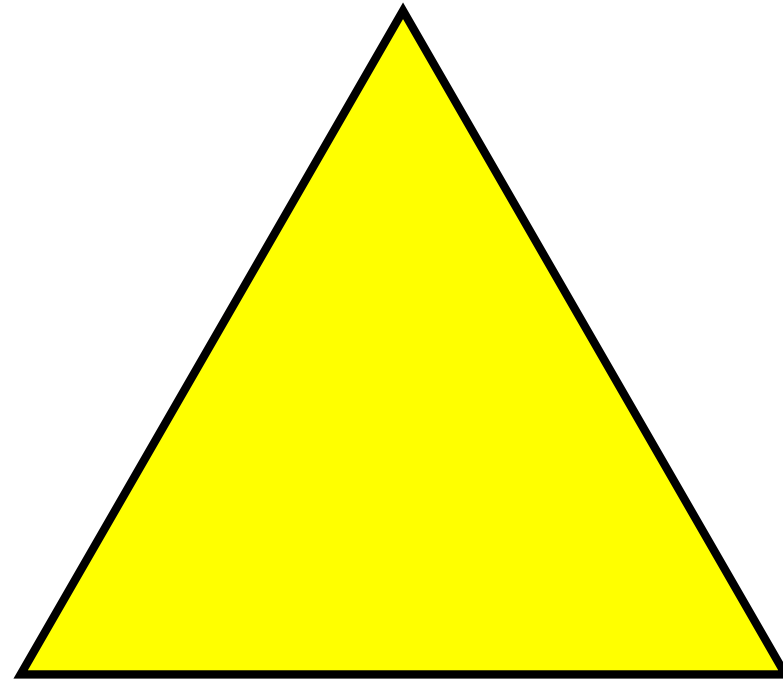
- Learn times tables – full number sentences

$$4 \times 5 = 20$$

$$3 \times 8 = 24$$

$$6 \times 7 = 42$$

If I know...



2, 3, 6

$$2 \times 3 = 6$$

$$3 \times 2 = 6$$

$$6 \div 2 = 3$$

$$6 \div 3 = 2$$

Useful websites



✓ [RM Easimaths](#)

✓ [Woodlands Junior School](#)

✓ [Top Marks Hit the Button](#)

✓ [Primary Interactive](#)

✓ [Bubble Multiples](#)

✓ [Crickweb](#)

✓ [ICT Games](#)

✓ [BBC Bitesize](#)

Take 4



- Write down 4 key ideas that you will take away from today's session.