

18 May 2022

National Numeracy Day

Block Star



Watch the episode "Block Star" on BBC iPlayer and YouTube

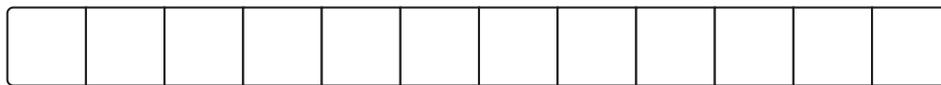
12

Six by Two!
Twelve by One!
Switch! Turn!

Twelve is made up of twelve blocks. Can you share the blocks into different equal groups in each line? Then write the sequence below.

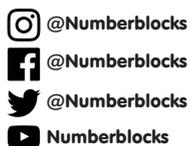


$3+3+3+3=12$ or $4 \times 3=12$



Calling all Number Explorers!

- Explore how many ways you can split 16 into equal groups.



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LEVEL 3

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Notes for grown-ups

MATHEMATICS

- Partition 12 into equal groups to explore factors of 12.
- Explore factors of 16.

ACTIVITIES

- Split each rod of 12 into equal groups by either colouring and/or drawing lines between blocks. Children notice that 12 can be split into ones, twos, threes, fours, and sixes.
- Do the same with 16 and compare the factors of 12 and 16.

ACTIVITY SOLUTIONS AND EXPECTATIONS

Children should find that they can split rods of 12 into 6 twos, 4 threes, 3 fours and 2 sixes. They can record this as repeated addition e.g., $4 + 4 + 4$ or if they are confident with multiplication as 3×4 .

There are 5 ways to split 12 into equal groups (ones, twos, threes, fours, and sixes) but only 3 ways to split 16 into equal groups (ones, twos and fours). This may come as a surprise and children may want to investigate with other numbers.



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LEVEL
3