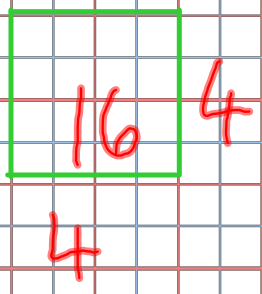
Square Numbers

In your book draw some squares.

Count how many squares inside them and write it next to the square.



The square numbers are:

The Square Numbers:

$1^2 = 1 \times 1 = 1$

$2^2 = 2 \times 2 = 4$

3^2

4^2

5^2

6^2

7^2

8^2

9^2

10^2

11^2

12^2

Find the square numbers up to 20^2 using your calculator.

$13^2 = 169$

$14^2 = 196$

$15^2 = 225$

$16^2 = 256$

$17^2 = 289$

$18^2 = 324$

$19^2 = 361$

$20^2 = 400$

(Level 5)

tic tac toe page 28

Square Roots

The opposite of a square is a square root.

For example

$\sqrt{36} = 6$ $\sqrt{9} = 3$

$\sqrt{121} = 11$ $\sqrt{81} = 9$

$\sqrt{1} = 1$ $\sqrt{196} = 14$

Set your neighbour 5 square roots to find.

Your calculator has a square root key.
Use it to find:

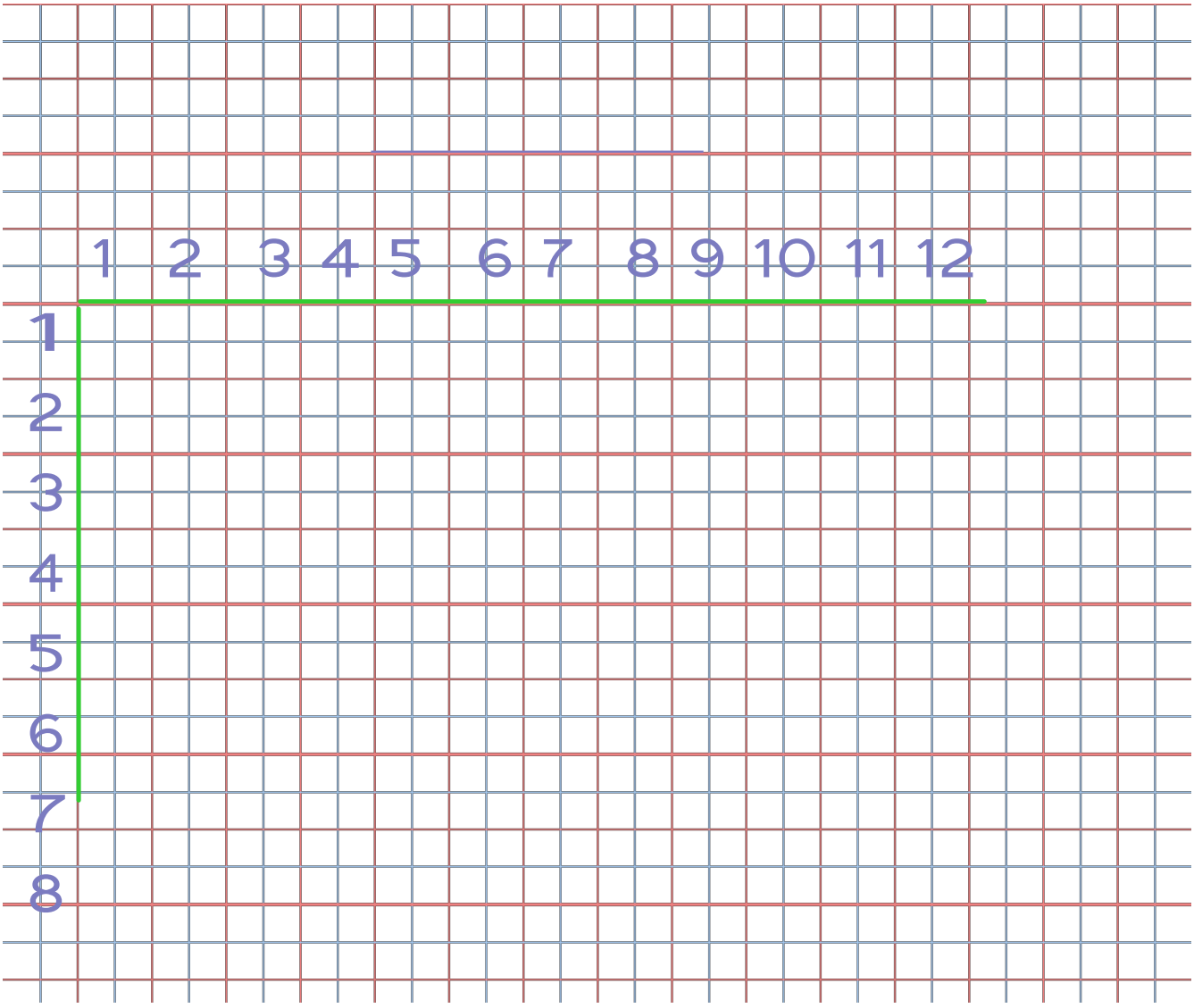
$\sqrt{400} = 20$ $\sqrt{1849} = 43$

$\sqrt{900} = 30$ $\sqrt{1089} = 33$

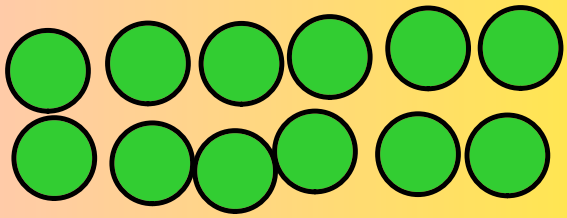
game

$\sqrt{10201} = 101$

$432^2 = 186\,624$


1 2 3 4 5 6 7 8 9 10 11 12
1
2
3
4
5
6
7
8

The factors of 12



1, 12

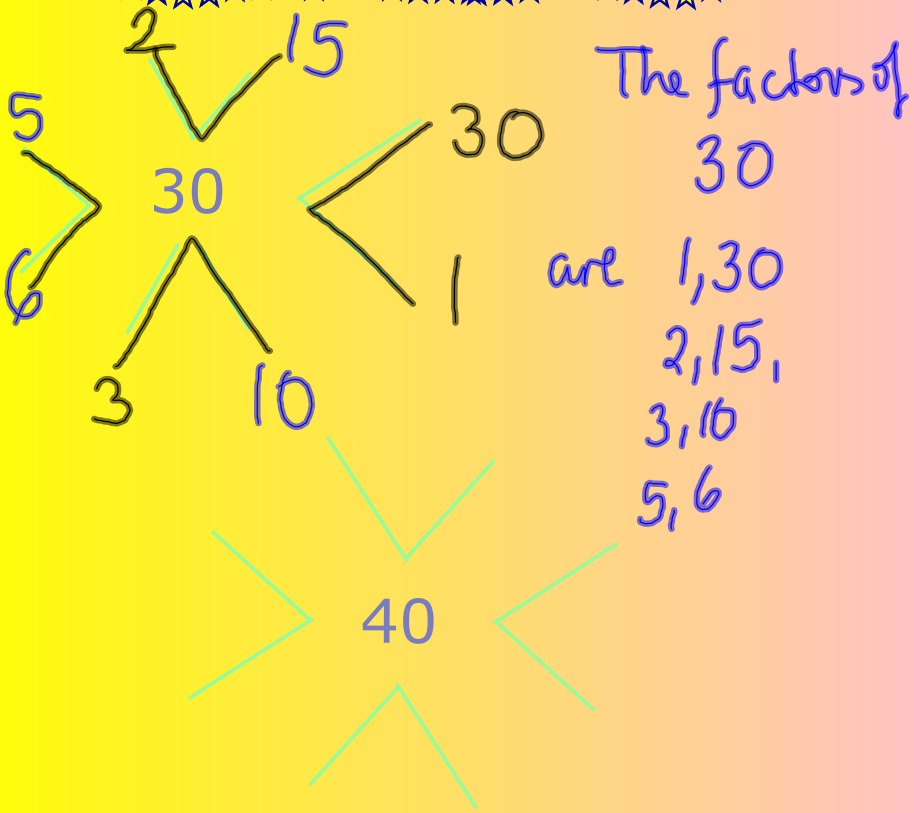
2, 6

3, 4

The factors of 12 are 1, 12, 2, 6, 3, 4

Factors

Factors are numbers that go into another number.
They come in pairs!



The factors of 30 are 1,30 2,15, 3,10 5,6

What are the factors of:

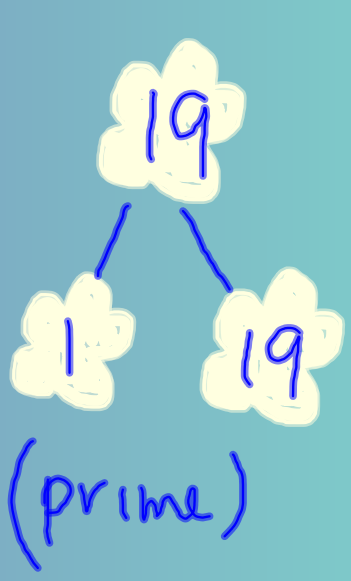
8 1,8,2,4

12

15 1,15,3,5

16 1,16,2,8,4

Factor clouds



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Multiples

Multiples of 3.....

Using 1-100 grids:

1. Shade the multiples of 3 blue and the multiples of 5 red.
Write down the common multiples of 3 and 5.

2. Shade the multiples of 2 blue and the multiples of 6 red.
Write down the common multiples of 2 and 6.

Adding Decimals

KEEP THE DECIMAL POINTS UNDERNEATH EACH OTHER!

2.56+3.6

28.07+3.5

14.4309+4.12

0.7803+213+2.3

How many of these sequences can you start...?

even numbers

square numbers

odd numbers

multiples of 5

A sequence going up in 3s Starting with 1

Continuing Sequences

Write down the next 3 terms of a sequence.Write down the rule.

1. 4,7,10, 13....

2. 0.5, 1.5, 2.5, 3.5....

3. 7, 5, 3, 1.....

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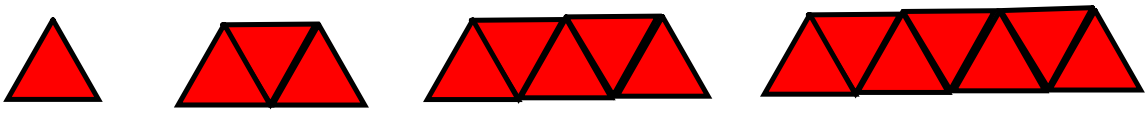
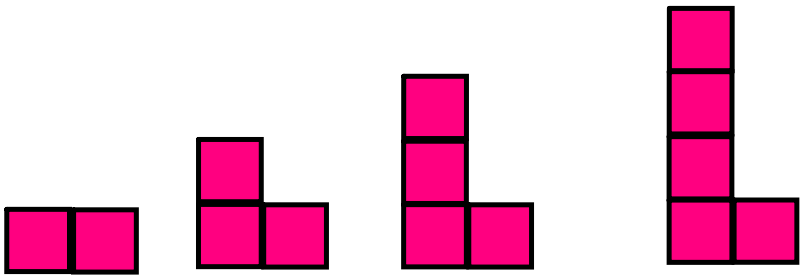
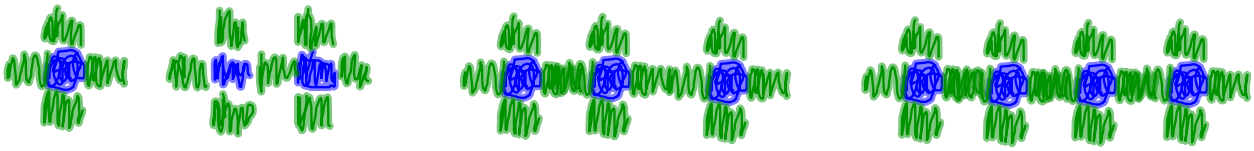
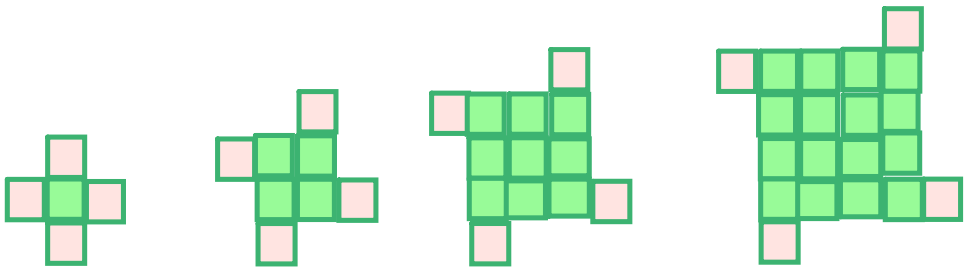
Picture Sequences

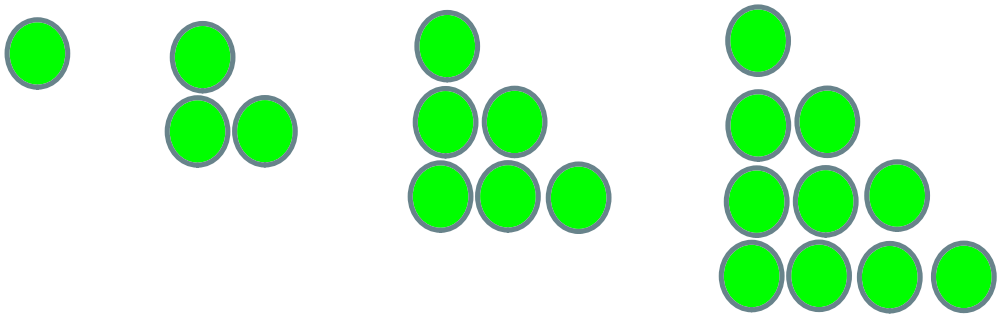
What will the 5th and 6th diagram look like?











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Making the Rules

A sequence begins:

1. 3, 6, 9, 12, 15.....

2. 9, 19, 29, 39, 49.....

3. 6, 11, 16, 21, 26.....

For each sequence:
a) Write down the next three terms

b) The rule for the sequence

Attachments

14 Spinner 2 (Multiplication 1 to 12).ppt

10 Rings 2 (Addition).ppt

Multiples.xls