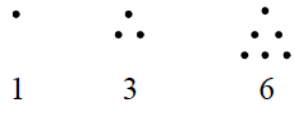




Find the next 3 triangular numbers and draw in the dots to represent them

Add a row, each row increases by 1 dot



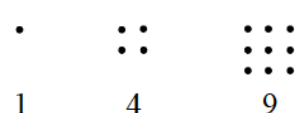
1 $\frac{10}{4\text{th number}}$ →

2 $\frac{15}{5\text{th number}}$ →

3 $\frac{21}{6\text{th number}}$ →



Find the next 4 square numbers and draw them with dots.



4 $\frac{16}{4\text{th number}}$ →

5 $\frac{25}{5\text{th number}}$ →

6 $\frac{36}{6\text{th number}}$ →

7 $\frac{49}{7\text{th number}}$ →



List the first 10 square numbers then calculate the next 10

8 $1^2 = 1 \times 1 = 1$

9 $2^2 = 2 \times 2 = 4$

10 $3^2 = 3 \times 3 = 9$

11 $4^2 = 4 \times 4 = 16$

12 $5^2 = 5 \times 5 = 25$

13 $6^2 = 6 \times 6 = 36$

14 $7^2 = 7 \times 7 = 49$

15 $8^2 = 8 \times 8 = 64$

16 $9^2 = 9 \times 9 = 81$

17 $10^2 = 10 \times 10 = 100$

18 $11^2 = 121$ 19 $12^2 = 144$

$11 \times$	$12 \times$
$\frac{11}{11}$	$\frac{12}{12}$
$\frac{110}{110}$	$\frac{120}{120}$
$\frac{121}{121}$	$\frac{144}{144}$

20 $13^2 = 169$ 21 $14^2 = 196$

$13 \times$	$14 \times$
$\frac{13}{13}$	$\frac{14}{14}$
$\frac{39}{130}$	$\frac{56}{140}$
$\frac{169}{169}$	$\frac{196}{196}$

22 $15^2 = 225$ 23 $16^2 = 256$

$15 \times$	$16 \times$
$\frac{15}{15}$	$\frac{16}{16}$
$\frac{75}{150}$	$\frac{96}{160}$
$\frac{225}{225}$	$\frac{256}{256}$

24 $17^2 = 289$ 25 $18^2 = 324$

$17 \times$	$18 \times$
$\frac{17}{17}$	$\frac{18}{18}$
$\frac{119}{170}$	$\frac{144}{180}$
$\frac{289}{289}$	$\frac{324}{324}$

26 $19^2 = 361$ 27 $20^2 = 400$

$19 \times$	$20 \times$
$\frac{19}{19}$	$\frac{20}{20}$
$\frac{171}{190}$	$\frac{400}{400}$
$\frac{361}{361}$	



Using your previous answers find the square root of these numbers

28 $\sqrt{81} = 9$ 29 $\sqrt{49} = 7$

30 $\sqrt{100} = 10$ 31 $\sqrt{16} = 4$

32 $\sqrt{121} = 11$ 33 $\sqrt{225} = 15$

34 $\sqrt{400} = 20$ 35 $\sqrt{256} = 16$

36 $\sqrt{324} = 18$ 37 $\sqrt{81} = 9$

38 $\sqrt{361} = 19$ 39 $\sqrt{289} = 17$