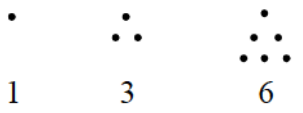




Find the next 3 triangular numbers and draw in the dots to represent them

Add a row, each row increases by 1 dot



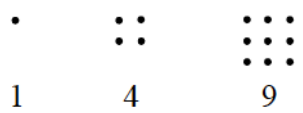
1 $\frac{10}{4\text{th number}}$ →

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 $12^2 = 144$

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

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

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

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

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

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

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

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

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



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 $\sqrt{289} = 17$