

Math Facts for the SHSAT

Patterns of Perfect Squares and Square Roots (1 – 25)

1^2	=	$(-1)^2$	=	1	$\sqrt{1}$	=	$1^{\frac{1}{2}}$	=	± 1	-1^2	=	-1	$-\sqrt{1}$	=	$-1^{\frac{1}{2}}$	=	-1
2^2	=	$(-2)^2$	=	4	$\sqrt{4}$	=	$4^{\frac{1}{2}}$	=	± 2	-2^2	=	-4	$-\sqrt{4}$	=	$-4^{\frac{1}{2}}$	=	-2
3^2	=	$(-3)^2$	=	9	$\sqrt{9}$	=	$9^{\frac{1}{2}}$	=	± 3	-3^2	=	-9	$-\sqrt{9}$	=	$-9^{\frac{1}{2}}$	=	-3
4^2	=	$(-4)^2$	=	16	$\sqrt{16}$	=	$16^{\frac{1}{2}}$	=	± 4	-4^2	=	-16	$-\sqrt{16}$	=	$-16^{\frac{1}{2}}$	=	-4
5^2	=	$(-5)^2$	=	25	$\sqrt{25}$	=	$25^{\frac{1}{2}}$	=	± 5	-5^2	=	-25	$-\sqrt{25}$	=	$-25^{\frac{1}{2}}$	=	-5
6^2	=	$(-6)^2$	=	36	$\sqrt{36}$	=	$36^{\frac{1}{2}}$	=	± 6	-6^2	=	-36	$-\sqrt{36}$	=	$-36^{\frac{1}{2}}$	=	-6
7^2	=	$(-7)^2$	=	49	$\sqrt{49}$	=	$49^{\frac{1}{2}}$	=	± 7	-7^2	=	-49	$-\sqrt{49}$	=	$-49^{\frac{1}{2}}$	=	-7
8^2	=	$(-8)^2$	=	64	$\sqrt{64}$	=	$64^{\frac{1}{2}}$	=	± 8	-8^2	=	-64	$-\sqrt{64}$	=	$-64^{\frac{1}{2}}$	=	-8
9^2	=	$(-9)^2$	=	81	$\sqrt{81}$	=	$81^{\frac{1}{2}}$	=	± 9	-9^2	=	-81	$-\sqrt{81}$	=	$-81^{\frac{1}{2}}$	=	-9
10^2	=	$(-10)^2$	=	100	$\sqrt{100}$	=	$100^{\frac{1}{2}}$	=	± 10	-10^2	=	-100	$-\sqrt{100}$	=	$-100^{\frac{1}{2}}$	=	-10
11^2	=	$(-11)^2$	=	121	$\sqrt{121}$	=	$121^{\frac{1}{2}}$	=	± 11	-11^2	=	-121	$-\sqrt{121}$	=	$-121^{\frac{1}{2}}$	=	-11
12^2	=	$(-12)^2$	=	144	$\sqrt{144}$	=	$144^{\frac{1}{2}}$	=	± 12	-12^2	=	-144	$-\sqrt{144}$	=	$-144^{\frac{1}{2}}$	=	-12
13^2	=	$(-13)^2$	=	169	$\sqrt{169}$	=	$169^{\frac{1}{2}}$	=	± 13	-13^2	=	-169	$-\sqrt{169}$	=	$-169^{\frac{1}{2}}$	=	-13
14^2	=	$(-14)^2$	=	196	$\sqrt{196}$	=	$196^{\frac{1}{2}}$	=	± 14	-14^2	=	-196	$-\sqrt{196}$	=	$-196^{\frac{1}{2}}$	=	-14
15^2	=	$(-15)^2$	=	225	$\sqrt{225}$	=	$225^{\frac{1}{2}}$	=	± 15	-15^2	=	-225	$-\sqrt{225}$	=	$-225^{\frac{1}{2}}$	=	-15
16^2	=	$(-16)^2$	=	256	$\sqrt{256}$	=	$256^{\frac{1}{2}}$	=	± 16	-16^2	=	-256	$-\sqrt{256}$	=	$-256^{\frac{1}{2}}$	=	-16
17^2	=	$(-17)^2$	=	289	$\sqrt{289}$	=	$289^{\frac{1}{2}}$	=	± 17	-17^2	=	-289	$-\sqrt{289}$	=	$-289^{\frac{1}{2}}$	=	-17
18^2	=	$(-18)^2$	=	324	$\sqrt{324}$	=	$324^{\frac{1}{2}}$	=	± 18	-18^2	=	-324	$-\sqrt{324}$	=	$-324^{\frac{1}{2}}$	=	-18
19^2	=	$(-19)^2$	=	361	$\sqrt{361}$	=	$361^{\frac{1}{2}}$	=	± 19	-19^2	=	-361	$-\sqrt{361}$	=	$-361^{\frac{1}{2}}$	=	-19
20^2	=	$(-20)^2$	=	400	$\sqrt{400}$	=	$400^{\frac{1}{2}}$	=	± 20	-20^2	=	-400	$-\sqrt{400}$	=	$-400^{\frac{1}{2}}$	=	-20
21^2	=	$(-21)^2$	=	441	$\sqrt{441}$	=	$441^{\frac{1}{2}}$	=	± 21	-21^2	=	-441	$-\sqrt{441}$	=	$-441^{\frac{1}{2}}$	=	-21
22^2	=	$(-22)^2$	=	484	$\sqrt{484}$	=	$484^{\frac{1}{2}}$	=	± 22	-22^2	=	-484	$-\sqrt{484}$	=	$-484^{\frac{1}{2}}$	=	-22
23^2	=	$(-23)^2$	=	529	$\sqrt{529}$	=	$529^{\frac{1}{2}}$	=	± 23	-23^2	=	-529	$-\sqrt{529}$	=	$-529^{\frac{1}{2}}$	=	-23
24^2	=	$(-24)^2$	=	576	$\sqrt{576}$	=	$576^{\frac{1}{2}}$	=	± 24	-24^2	=	-576	$-\sqrt{576}$	=	$-576^{\frac{1}{2}}$	=	-24
25^2	=	$(-25)^2$	=	625	$\sqrt{625}$	=	$625^{\frac{1}{2}}$	=	± 25	-25^2	=	-625	$-\sqrt{625}$	=	$-625^{\frac{1}{2}}$	=	-25