



• مربعات الأعداد (حاصل ضرب العدد في نفسه):

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

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

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

$$4^2 = 16$$

$$5^2 = 25$$

$$6^2 = 36$$

$$7^2 = 49$$

$$8^2 = 64$$

$$9^2 = 81$$

$$10^2 = 100$$

$$11^2 = 121$$

$$12^2 = 144$$

$$13^2 = 169$$

$$14^2 = 196$$

$$15^2 = 225$$

$$16^2 = 256$$

$$17^2 = 289$$

$$18^2 = 324$$

$$19^2 = 361$$

$$20^2 = 400$$

• الجذور التربيعية للمربعات الكاملة:

$$\sqrt{1} = \sqrt{1^2} = \sqrt{1 \times 1} = 1$$

$$\sqrt{4} = \sqrt{2^2} = \sqrt{2 \times 2} = 2$$

$$\sqrt{9} = \sqrt{3^2} = \sqrt{3 \times 3} = 3$$

$$\sqrt{16} = 4$$

$$\sqrt{25} = 5$$

$$\sqrt{36} = 6$$

$$\sqrt{49} = 7$$

$$\sqrt{64} = 8$$

$$\sqrt{81} = 9$$

$$\sqrt{100} = 10$$

$$\sqrt{121} = 11$$

$$\sqrt{144} = 12$$

$$\sqrt{169} = 13$$

$$\sqrt{196} = 14$$

$$\sqrt{225} = 15$$

$$\sqrt{256} = 16$$

$$\sqrt{289} = 17$$

$$\sqrt{324} = 18$$

$$\sqrt{361} = 19$$

$$\sqrt{400} = 20$$

- مكعبات الأعداد (حاصل ضرب العدد في نفسه 3 مرّات):

$$1^3 = 1 \times 1 \times 1 = 1$$

$$2^3 = 2 \times 2 \times 2 = 8$$

$$3^3 = 3 \times 3 \times 3 = 27$$

$$4^3 = 64$$

$$5^3 = 125$$

$$6^3 = 216$$

$$7^3 = 343$$

$$8^3 = 512$$

$$9^3 = 729$$

$$10^3 = 1000$$

$$11^3 = 1331$$

$$12^3 = 1728$$

- الجذور التكعيبيّة للمكعبات الكاملة:

$$\sqrt[3]{1} = \sqrt[3]{1^3} = \sqrt[3]{1 \times 1 \times 1} = 1$$

$$\sqrt[3]{8} = \sqrt[3]{2^3} = \sqrt[3]{2 \times 2 \times 2} = 2$$

$$\sqrt[3]{27} = \sqrt[3]{3^3} = \sqrt[3]{3 \times 3 \times 3} = 3$$

$$\sqrt[3]{64} = 4$$

$$\sqrt[3]{125} = 5$$

$$\sqrt[3]{216} = 6$$

$$\sqrt[3]{343} = 7$$

$$\sqrt[3]{512} = 8$$

$$\sqrt[3]{729} = 9$$

$$\sqrt[3]{1000} = 10$$

$$\sqrt[3]{1331} = 11$$

$$\sqrt[3]{1728} = 12$$

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