**Свойства арифметического корня. Устные упражнения для 8 класса**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| № | 1 |  2 |  3 |  4 | 5 |
| 1 | $$\sqrt{0}$$ |  $\sqrt{1}$ |  $\sqrt{4}$ |  $\sqrt{9}$ |  $\sqrt{16}$  |
| 2 |  $\sqrt{64}$ |  $\sqrt{49}$ |  $\sqrt{81}$ |  $\sqrt{100}$ |  $\sqrt{121}$ |
| 3 |  $\sqrt{196}$ |  $\sqrt{225}$ |  $\sqrt{256}$ |  $\sqrt{289}$ |  $\sqrt{324}$ |
| 4 |  $\sqrt{625}$ |  $\sqrt{900}$ |  $\sqrt{10000}$ |  $\sqrt{6400}$ |  $\sqrt{1600}$ |
| 5 |  $\sqrt{12}$ |  $\sqrt{8}$ |  $\sqrt{27}$ |  $\sqrt{45}$ |  $\sqrt{50}$ |
| 6 |  $ \sqrt{300}$ | $$\sqrt{48}$$ |  $\sqrt{18}$ |  $\sqrt{32}$ |  $\sqrt{28}$ |
| 7 |  $\sqrt{0,04}$ |  $\sqrt{0,09}$ |  $\sqrt{0,25}$ |  $\sqrt{0,36}$ |  $\sqrt{0,64}$ |
| 8 |  $\sqrt{2}$ ·$\sqrt{8}$ | $\sqrt{3}$·$\sqrt{3}$ |  $\sqrt{5}$·$\sqrt{5}$ |  $\sqrt{7}$·$\sqrt{7}$ |  $ \sqrt{2}$·$\sqrt{2}$ |
| 9 | $$\sqrt{10}∙\sqrt{10}$$ | $\sqrt{10}$ $∙\sqrt{0,4}$ |  $\sqrt{18}$·$\sqrt{2}$ |  $ \sqrt{50}$·$\sqrt{2}$ |  $\sqrt{18}$·$\sqrt{2}$ |
| 10 | $$\sqrt{0,4}$$ |  $\sqrt{2,5}$ |  $\sqrt{3,6}$ |  $\sqrt{1,6}$ |  $\sqrt{0,4}$ |
| 11 |  ($\sqrt{7}$)² |  ($\sqrt{3}$)² |  ($\sqrt{2}$)² |  ($\sqrt{6}$)² |  ($\sqrt{5)²}$ |
| 12 |  (6$\sqrt{3 )²}$ |  (5$\sqrt{6}$)² |  (3$\sqrt{10}$)² |  (2$\sqrt{11}$)² |  (4$\sqrt{7}$)²  |
| 13 | $$\sqrt{1000}$$ | $$\sqrt{250}$$ | $$\sqrt{360}$$ | $$\sqrt{2250}$$ | $$\sqrt{90}$$ |
| 14 | $$\sqrt{9+4}$$ | $$\sqrt{16- 1}$$ | $$\sqrt{100-3}$$ | $$\sqrt{64+16}$$ | $$\sqrt{25-9}$$ |
| 15 |  $ \sqrt{9∙4}$ | $$\sqrt{16∙1}$$ | $$\sqrt{100∙36}$$ |  $\sqrt{64∙16}$ | $$\sqrt{25∙9}$$ |
| 16 | $$\sqrt{5²-4² }$$ | $$\sqrt{17²-8}²$$ | $$\sqrt{15²+8}²$$ | $$\sqrt{17²-8}$$ | $$\sqrt{10²-8²}$$ |
| 17 |  ($\sqrt{7}$)³ |  ($\sqrt{3}$)³ |  ($\sqrt{2}$)³ | ($\sqrt{6}$)³ |  ($\sqrt{5}$)³ |
| 18 |  $\frac{5}{\sqrt{5}}$ | $$\frac{6}{\sqrt{3}}$$ | $$\frac{7}{\sqrt{7}}$$ | $$\frac{3}{\sqrt{3}}$$ | $$\frac{6}{\sqrt{2}}$$ |
| 19 | $( \sqrt{2}$ - 1)$ (\sqrt{2}$ -1) | (1-$\sqrt{3)}(1+\sqrt{3)}$ | (2+$\sqrt{5)}$(2-$\sqrt{5)}$ | (3-$\sqrt{2)}$(3+$\sqrt{2}$) | ($\sqrt{3}$+$\sqrt{4})(\sqrt{3}$-$\sqrt{4})$ |
| 20 | (2 - $\sqrt{3}$)² | (1 - $\sqrt{5}$)² | (2 - $\sqrt{5}$)² | ($\sqrt{3}$ + 2)² |  ($\sqrt{5}$ - 3)² |