

תרגול פסיכומטרי - חזקות ושורשים 1



.1 $a^2 \cdot 125^2 = a^5 \cdot 5^{12}$
 $a = ?$

25 (4)

1 (3)

$\frac{1}{25}$ (2)

$\frac{1}{125}$ (1)

.2 $64 \cdot 81 \cdot 4 \cdot 9^2 = ?$

$3^5 \cdot 4$ (4)

6^8 (3)

7^5 (2)

12^5 (1)

.3 $\frac{(\sqrt[4]{x} \cdot 9)^4}{(\sqrt[6]{x} \cdot 3)^6} = ?$

9 (4)

$\frac{1}{3}$ (3)

$9x$ (2)

$2x$ (1)

.4 $\sqrt[4]{\frac{16}{20}} \cdot \sqrt[4]{\frac{32}{36}} \cdot \sqrt[4]{\frac{14}{24}} \cdot \sqrt[4]{\frac{15}{7}} = ?$

$\sqrt[4]{\frac{8}{9}}$ (4)

$\frac{1}{3}$ (3)

$\sqrt[4]{\frac{4}{9}}$ (2)

$\frac{2}{3}$ (1)

.5 $\frac{\frac{x^8}{y^4}}{\frac{y^2}{x^4}} = z^6$
 $x = ?$

$y \cdot z^2$ (4)

\sqrt{zy} (3)

$y\sqrt{z}$ (2)

$z\sqrt{y}$ (1)

.6 $\sqrt[3]{\sqrt[2]{\sqrt[4]{(x^{-3} \cdot y^{-6})^{-8}}}} = ?$

$x \cdot y$ (4)

$\frac{x}{y^2}$ (3)

$x \cdot y^2$ (2)

$\frac{x^2}{y}$ (1)