

3年 平方根 I

_____年 _____組 _____番 氏名 _____

1. 次の計算をなさい。

(1) $\sqrt{12} - 3\sqrt{3}$ (福島) _____

(2) $\sqrt{8} - 5\sqrt{2}$ (埼玉) _____

(3) $\sqrt{45} - \sqrt{5}$ (長野, 大阪) _____

(4) $\sqrt{27} + \sqrt{3}$ (兵庫) _____

(5) $\frac{\sqrt{54}}{2} + \sqrt{\frac{3}{2}}$ (石川) _____

(6) $\sqrt{20} - \frac{30}{\sqrt{5}}$ (静岡) _____

(7) $\sqrt{12} - \frac{3}{\sqrt{3}}$ (和歌山) _____

(8) $\sqrt{54} + \frac{24}{\sqrt{6}}$ (広島) _____

(9) $\frac{12}{\sqrt{2}} + \sqrt{18}$ (大分) _____

(10) $\sqrt{12} + 3\sqrt{3} - \sqrt{48}$ (島根) _____

(11) $\sqrt{8} + 5\sqrt{2} - \sqrt{32}$ (高知) _____

(12) $\sqrt{75} - \frac{9}{\sqrt{3}} + \sqrt{12}$ (青森) _____

(13) $(-\sqrt{8}) \div \sqrt{2} + 4$ (北海道) _____

(14) $(\sqrt{2} + 1)^2 - \sqrt{32}$ (山形) _____

(15) $(\sqrt{5} + 4)(\sqrt{5} - 1)$ (東京) _____

(16) $(3 + 2\sqrt{5})(3 - 2\sqrt{5})$ (三重) _____

(17) $\sqrt{6} \times \sqrt{2} + \sqrt{27}$ (佐賀) _____

(18) $\sqrt{45} - \sqrt{10} \times \sqrt{2}$ (秋田, 愛知) _____

(19) $(2\sqrt{3} + \sqrt{7})(2\sqrt{3} - \sqrt{7})$ (徳島) _____

(20) $(2 - \sqrt{2})(\sqrt{2} + 1) + \sqrt{8}$ (香川) _____

(21) $\left(-\frac{1}{\sqrt{3}}\right) \times 9 + \sqrt{12}$ (千葉) _____

(22) $(\sqrt{24} - \sqrt{6}) \times \frac{2}{\sqrt{8}}$ (愛知) _____

(23) $(\sqrt{3} + \sqrt{2})^2 - (\sqrt{3} - \sqrt{2})^2$ (山口) _____

(24) $\frac{\sqrt{8}}{3} \times \sqrt{3} + \frac{2}{\sqrt{6}}$ (熊本) _____

(25) $\frac{\sqrt{27} - \sqrt{2}}{2} - \frac{5\sqrt{3} - \sqrt{8}}{3}$ (大阪) _____