

### 3年 平方根の計算

\_\_\_\_\_年 \_\_\_\_\_組 \_\_\_\_\_番 氏名 \_\_\_\_\_

1. 次の計算をなさい。

(1)  $-2\sqrt{2} + \sqrt{18}$  (福島) \_\_\_\_\_

(2)  $\sqrt{12} + 5\sqrt{3}$  (栃木, 沖縄) \_\_\_\_\_

(3)  $5\sqrt{5} - \sqrt{20}$  (埼玉) \_\_\_\_\_

(4)  $6\sqrt{3} - \sqrt{12}$  (富山) \_\_\_\_\_

(5)  $\sqrt{12} + \sqrt{3}$  (長野) \_\_\_\_\_

(6)  $\sqrt{54} - 8\sqrt{6}$  (大阪) \_\_\_\_\_

(7)  $3\sqrt{2} + \sqrt{32}$  (大阪) \_\_\_\_\_

(8)  $\sqrt{18} - \sqrt{8}$  (兵庫) \_\_\_\_\_

(9)  $5\sqrt{3} - \sqrt{27}$  (鳥取, 佐賀, 長崎) \_\_\_\_\_

(10)  $\sqrt{48} - \frac{9}{\sqrt{3}}$  (東京) \_\_\_\_\_

(11)  $\frac{12}{\sqrt{6}} - \sqrt{54}$  (神奈川) \_\_\_\_\_

(12)  $\sqrt{27} - \frac{6}{\sqrt{3}}$  (新潟) \_\_\_\_\_

(13)  $\sqrt{12} - \frac{1}{\sqrt{3}}$  (石川) \_\_\_\_\_

(14)  $\sqrt{32} + \frac{6}{\sqrt{2}}$  (静岡) \_\_\_\_\_

(15)  $\sqrt{8} - \frac{2}{\sqrt{2}}$  (徳島) \_\_\_\_\_

(16)  $\sqrt{2} \times \sqrt{3} + \sqrt{6}$  (北海道) \_\_\_\_\_

(17)  $(\sqrt{5} + 4)^2$  (青森) \_\_\_\_\_

(18)  $(\sqrt{3} + 1)(\sqrt{3} + 2)$  (岩手) \_\_\_\_\_

(19)  $\sqrt{6}(\sqrt{2} + \sqrt{3}) - 2\sqrt{3}$  (秋田) \_\_\_\_\_

(20)  $\sqrt{5}(\sqrt{5} - 3) + \sqrt{20}$  (山形) \_\_\_\_\_

(21)  $\sqrt{72} - \sqrt{6} \times \sqrt{3}$  (茨城) \_\_\_\_\_

(22)  $(\sqrt{2} + \sqrt{5})(\sqrt{5} - 2\sqrt{2})$  (千葉) \_\_\_\_\_

(23)  $(\sqrt{3} + 5)(3 - \sqrt{3})$  (福井) \_\_\_\_\_

(24)  $\sqrt{20} + \sqrt{15} \div \sqrt{3}$  (山梨) \_\_\_\_\_

(25)  $(4 + \sqrt{5})(4 - \sqrt{5})$  (高知) \_\_\_\_\_

(26)  $\sqrt{2}(\sqrt{27} - \sqrt{12})$  (宮崎) \_\_\_\_\_

(27)  $(\sqrt{5} - 3)(\sqrt{5} + 4) - \sqrt{45}$  (滋賀) \_\_\_\_\_

(28)  $(\sqrt{3} - 1)(\sqrt{3} + 4) - \sqrt{12}$  (岡山) \_\_\_\_\_

(29)  $\sqrt{3}(\sqrt{6} + \sqrt{3}) - \frac{8}{\sqrt{2}}$  (愛媛) \_\_\_\_\_

(30)  $(2 - \sqrt{3})^2 + \frac{12}{\sqrt{3}}$  (長崎) \_\_\_\_\_