

問題番号 09M0201_01 レベル ☆☆☆	うんな進学塾 中3 第2章 平方根 ①平方根の基本を学ぶ Level-1-1 解答	授業動画QR 
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1. 次の数の平方根を答えなさい。

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|---|---|--------------------------------------|
| (1) 16
$16 = (+4)^2, 16 = (-4)^2$ | (2) 4
$4 = (+2)^2, 4 = (-2)^2$ | (3) 49
$49 = (+7)^2, 49 = (-7)^2$ |
| (4) $\frac{9}{4}$
$\frac{9}{4} = \left(+\frac{3}{2}\right)^2, \frac{9}{4} = \left(-\frac{3}{2}\right)^2$ | (5) $\frac{25}{81}$
$\frac{25}{81} = \left(+\frac{5}{9}\right)^2, \frac{25}{81} = \left(-\frac{5}{9}\right)^2$ | (6) 0
0の平方根は0 |

(1) ± 4	(2) ± 2	(3) ± 7
(4) $\pm \frac{3}{2}$	(5) $\pm \frac{5}{9}$	(6) 0

2. 次の数を根号を使わずに表しなさい。

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|---|--|--|
| (1) $-\sqrt{25} = -\sqrt{5^2} = -5$ | (2) $\sqrt{(-9)^2} = \sqrt{81} = \sqrt{9^2} = 9$ | (3) $\sqrt{121} = \sqrt{11^2} = 11$ |
| (4) $-\sqrt{\frac{4}{49}} = -\sqrt{\frac{2^2}{7^2}} = -\frac{2}{7}$ | (5) $-\sqrt{(-6)^2} = -\sqrt{36} = -\sqrt{6^2} = -6$ | (6) $\sqrt{0.09} = \sqrt{0.3^2} = 0.3$ |
| (7) $\sqrt{0.36} = \sqrt{0.6^2} = 0.6$ | (8) $-\sqrt{8^2} = -8$ | (9) $\sqrt{\frac{144}{49}} = \sqrt{\frac{12^2}{7^2}} = \frac{12}{7}$ |

(1) -5	(2) 9	(3) 11
(4) $-\frac{2}{7}$	(5) -6	(6) 0.3
(7) 0.6	(8) -8	(9) $\frac{12}{7}$

3. 次の数を求めなさい。

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| (1) $(\sqrt{15})^2$
$\sqrt{15} \times \sqrt{15} = 15$ | (2) $(-\sqrt{4})^2$
$(-\sqrt{4}) \times (-\sqrt{4}) = \sqrt{4} \times \sqrt{4} = 4$ | (3) $(-\sqrt{64})^2$
$(-\sqrt{64}) \times (-\sqrt{64}) = \sqrt{64} \times \sqrt{64} = 64$ |
|--|--|--|

(1) 15	(2) 4	(3) 64
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