

問題番号 09M0201_02 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-1-2 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) 225
$225 = (+15)^2, 225 = (-15)^2$ | (2) 400
$400 = (+20)^2, 400 = (-20)^2$ | (3) 256
$256 = (+16)^2, 256 = (-16)^2$ |
| (4) $\frac{1}{9}$
$\frac{1}{9} = \left(+\frac{1}{3}\right)^2, \frac{1}{9} = \left(-\frac{1}{3}\right)^2$ | (5) $\frac{36}{49}$
$\frac{36}{49} = \left(+\frac{6}{7}\right)^2, \frac{36}{49} = \left(-\frac{6}{7}\right)^2$ | (6) 0.01
$0.01 = (+0.1)^2, 0.01 = (-0.1)^2$ |

(1) ±15	(2) ±20	(3) ±16
(4) ± $\frac{1}{3}$	(5) ± $\frac{6}{7}$	(6) ±0.1

2. 次の数を根号を使わずに表しなさい。

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|---|---|---|
| (1) $-\sqrt{36} = -\sqrt{6^2} = -6$ | (2) $\sqrt{(-12)^2} = \sqrt{144} = \sqrt{12^2} = 12$ | (3) $\sqrt{64} = \sqrt{8^2} = 8$ |
| (4) $-\sqrt{\frac{9}{16}} = -\sqrt{\frac{3^2}{4^2}} = -\frac{3}{4}$ | (5) $-\sqrt{(-7)^2} = -\sqrt{49} = -\sqrt{7^2} = -7$ | (6) $\sqrt{0.25} = \sqrt{0.5^2} = 0.5$ |
| (7) $\sqrt{0.81} = \sqrt{0.9^2} = 0.9$ | (8) $-\sqrt{\frac{81}{100}} = -\sqrt{\frac{9^2}{10^2}} = -\frac{9}{10}$ | (9) $\sqrt{\frac{25}{36}} = \sqrt{\frac{5^2}{6^2}} = \frac{5}{6}$ |

(1) -6	(2) 12	(3) 8
(4) $-\frac{3}{4}$	(5) -7	(6) 0.5
(7) 0.9	(8) $-\frac{9}{10}$	(9) $\frac{5}{6}$

3. 次の数を求めなさい。

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| (1) $(\sqrt{9})^2$
$\sqrt{9} \times \sqrt{9} = 9$ | (2) $(-\sqrt{25})^2$
$(-\sqrt{25}) \times (-\sqrt{25}) = \sqrt{25} \times \sqrt{25} = 25$ | (3) $(-\sqrt{0.4})^2$
$(-\sqrt{0.4}) \times (-\sqrt{0.4}) = \sqrt{0.4} \times \sqrt{0.4} = 0.4$ |
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(1) 9	(2) 25	(3) 0.4
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