

平方根 基礎確認テスト

氏名 ()

/ 100 点

1 次の数の平方根を求めなさい。(各2点)

(1) 4 (2) 5 (3) 6 (4) 7 (5) 9 (6) 13

(7) 25 (8) 49 (9) 100 (10) 0 (11) $\frac{1}{4}$ (12) $\frac{4}{9}$

(13) $\frac{25}{16}$ (14) $\frac{36}{49}$ (15) $\frac{3}{5}$ (16) $\frac{13}{17}$ (17) 0.36

(18) 0.7 (19) 0.01 (20) 2.25

2 次の数を根号を用いずに表しなさい。(各2点)

(1) $\sqrt{16}$ (2) $-\sqrt{25}$ (3) $\sqrt{6^2}$ (4) $-\sqrt{64}$ (5) $-\sqrt{81}$

(6) $\sqrt{0.25}$ (7) $-\sqrt{0.04}$ (8) $\sqrt{\frac{9}{4}}$ (9) $\sqrt{\frac{16}{25}}$ (10) $\sqrt{\left(\frac{1}{8}\right)^2}$

3 次の数を根号を用いて表しなさい。(各2点)

(1) 2 (2) 3 (3) 4 (4) 5 (5) -6 (6) 7

(7) 8 (8) 9 (9) -10 (10) 1 (11) 11 (12) 12

(13) $\frac{1}{2}$ (14) $\frac{2}{3}$ (15) $-\frac{3}{5}$ (16) $\frac{4}{9}$ (17) 0.1

(18) -0.2 (19) 0.6 (20) -1.5

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1 次の数の平方根を求めなさい。(各2点)

- | | | | | | |
|----------------------|----------------------|-------------------------|-------------------------|--------------------|--------------------|
| (1) 4 | (2) 5 | (3) 6 | (4) 7 | (5) 9 | (6) 13 |
| ± 2 | $\pm\sqrt{5}$ | $\pm\sqrt{6}$ | $\pm\sqrt{7}$ | ± 3 | $\pm\sqrt{13}$ |
| (7) 25 | (8) 49 | (9) 100 | (10) 0 | (11) $\frac{1}{4}$ | (12) $\frac{4}{9}$ |
| ± 5 | ± 7 | ± 10 | 0 | $\pm\frac{1}{2}$ | $\pm\frac{2}{3}$ |
| (13) $\frac{25}{16}$ | (14) $\frac{36}{49}$ | (15) $\frac{3}{5}$ | (16) $\frac{13}{17}$ | (17) 0.36 | |
| $\pm\frac{3}{4}$ | $\pm\frac{6}{7}$ | $\pm\sqrt{\frac{3}{5}}$ | $\pm\sqrt{\frac{3}{5}}$ | ± 0.6 | |
| (18) 0.7 | (19) 0.01 | (20) 2.25 | | | |
| $\pm\sqrt{0.7}$ | ± 0.1 | ± 1.5 | | | |

2 次の数を根号を用いずに表しなさい。(各2点)

- | | | | | |
|---------------------------|-----------------------------|----------------------------|-----------------------------|--|
| (1) $\frac{\sqrt{16}}{4}$ | (2) $\frac{-\sqrt{25}}{-5}$ | (3) $\frac{\sqrt{6^2}}{6}$ | (4) $\frac{-\sqrt{64}}{-8}$ | (5) $\frac{-\sqrt{81}}{-9}$ |
| (6) $\sqrt{0.25}$ | (7) $-\sqrt{0.04}$ | (8) $\sqrt{\frac{9}{4}}$ | (9) $\sqrt{\frac{16}{25}}$ | (10) $\sqrt{\left(\frac{1}{8}\right)^2}$ |
| 0.5 | -0.2 | $\frac{3}{2}$ | $\frac{4}{5}$ | $\frac{1}{8}$ |

3 次の数を根号を用いて表しなさい。(各2点)

- | | | | | | |
|--------------------|--------------------|---------------------|--------------------|--------------|--------------|
| (1) 2 | (2) 3 | (3) 4 | (4) 5 | (5) -6 | (6) 7 |
| $\sqrt{4}$ | $\sqrt{9}$ | $\sqrt{16}$ | $\sqrt{25}$ | $-\sqrt{36}$ | $\sqrt{49}$ |
| (7) 8 | (8) 9 | (9) -10 | (10) 1 | (11) 11 | (12) 12 |
| $\sqrt{64}$ | $\sqrt{81}$ | $-\sqrt{100}$ | $\sqrt{1}$ | $\sqrt{121}$ | $\sqrt{144}$ |
| (13) $\frac{1}{2}$ | (14) $\frac{2}{3}$ | (15) $-\frac{3}{5}$ | (16) $\frac{4}{9}$ | (17) 0.1 | |

$$\sqrt{\frac{1}{4}}$$

$$\sqrt{\frac{4}{9}}$$

$$-\sqrt{\frac{9}{25}}$$

$$\sqrt{\frac{16}{81}}$$

$$\sqrt{0.01}$$

(18) -0.2

(19) 0.6

(20) -1.5

$$-\sqrt{0.04}$$

$$\sqrt{0.36}$$

$$-\sqrt{2.25}$$