

MMS Math 8 Number Systems Quiz 8-10 Practice**Multiple Choice**

Indicate the answer choice that best completes the statement or answers the question.

Find each root.

- ___ 1. $\sqrt[3]{2,744}$
- a. 1,372
 - b. 16
 - c. 15
 - d. 14

- ___ 2. $\pm\sqrt{\frac{121}{289}}$
- a. $\frac{11}{17}$
 - b. $-\frac{11}{17}$
 - c. $\pm\frac{11}{17}$
 - d. $\pm\frac{11}{18}$

- ___ 3. $-\sqrt{\frac{25}{441}}$
- a. $\pm\frac{5}{21}$
 - b. $\frac{5}{21}$
 - c. $-\frac{5}{21}$
 - d. no real solution

- ___ 4. **RESTAURANTS** A new restaurant has ordered 64 tables for its outdoor patio. If the manager arranges the tables in a square formation, how many will be in each row?
- a. 4 tables
 - b. 8 tables
 - c. 16 tables
 - d. 32 tables

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ALGEBRA Solve each equation. Check your solution(s).

___ 5. $\sqrt{y} = 6$

- a. 6
- b. 30
- c. 36
- d. 42

___ 6. $\sqrt{z} = 8.4$

- a. 72.25
- b. 70.56
- c. 68.89
- d. 4.2

___ 7. $k^2 = 121$

- a. -11
- b. 11
- c. ± 11
- d. no real solution

Estimate to the nearest integer.

___ 8. $\sqrt[3]{26}$

- a. 2
- b. 3
- c. 5
- d. 9

___ 9. $\sqrt[3]{214}$

- a. 71
- b. 15
- c. 6
- d. 5

___ 10. $\sqrt{227}$

- a. 15
- b. 16
- c. 113
- d. 114

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Order from least to greatest.

- ___ 11. $\sqrt{50}, 7, \sqrt{44}, 5$
 a. $\sqrt{50}, 7, \sqrt{44}, 5$
 b. $5, \sqrt{44}, \sqrt{50}, 7$
 c. $\sqrt{44}, 5, 7, \sqrt{50}$
 d. $5, \sqrt{44}, 7, \sqrt{50}$

- ___ 12. $\sqrt{45}, 9, 6, \sqrt{63}$
 a. $9, \sqrt{63}, \sqrt{45}, 6$
 b. $6, \sqrt{45}, 9, \sqrt{63}$
 c. $\sqrt{45}, 6, \sqrt{63}, 9$
 d. $6, \sqrt{45}, \sqrt{63}, 9$

Name all sets of numbers to which the real number belongs.

- ___ 13. $\frac{8}{11}$
 a. integer
 b. irrational
 c. rational
 d. rational and integer

- ___ 14. $5.\bar{3}$
 a. rational and integer
 b. whole
 c. irrational
 d. rational

- ___ 15. $\frac{20}{5}$
 a. rational, integer, and whole
 b. rational and whole
 c. rational and integer
 d. irrational

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Order each set of numbers from least to greatest.

- ___ 16. $5.01, 5.\overline{01}, 5.\overline{01}, \sqrt{26}$
- a. $5.\overline{01}, 5.01, 5.01, \sqrt{26}$
 - b. $5.\overline{01}, 5.01, 5.\overline{01}, \sqrt{26}$
 - c. $\sqrt{26}, 5.\overline{01}, 5.\overline{01}, 5.01$
 - d. $5.01, 5.\overline{01}, 5.\overline{01}, \sqrt{26}$

- ___ 17. $-\sqrt{12}, \sqrt{13}, -3.5, 3.5$
- a. $\sqrt{13}, 3.5, -\sqrt{12}, -3.5$
 - b. $-3.5, -\sqrt{12}, 3.5, \sqrt{13}$
 - c. $-\sqrt{12}, -3.5, 3.5, \sqrt{13}$
 - d. $-3.5, -\sqrt{12}, \sqrt{13}, 3.5$

Name: _____ Class: _____ Date: _____

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Answer Key

1. d

2. c

3. c

4. b

5. c

6. b

7. c

8. b

9. c

10. a

11. d

12. d

13. c

14. d

15. a

16. d

17. b