

Course: SAT ACT Prep

Lesson Number: 5

Subject: Mathematical Reasoning

Reference Number: 1005-7

Topic: Arithmetic

Subtopic: Operations with Numbers Between Zero and One

<https://youtube.com/c/MrMattTheTutor>

Document: Quick Drill A Resource



1) If A is greater than zero and less than one, which of the following is listed in ascending order?

a) $A^2, \sqrt{A}, A^3, A^{\frac{1}{3}}$

b) $\sqrt{A}, A^2, A^3, A^{\frac{1}{3}}$

c) $A^3, A^2, \sqrt{A}, A^{\frac{1}{3}}$

d) $\sqrt{A}, A^3, A^{\frac{1}{3}}, A^2$

2) If A is greater than zero and less than one, which of the following is listed in ascending order?

a) A^3, A^{-1}, A^{-2}, A^2

b) A^3, A^2, A^{-1}, A^{-2}

c) A^3, A^2, A^{-2}, A^{-1}

d) A^{-2}, A^2, A^{-1}, A^3

3) If A is greater than zero and less than one, which of the following is listed in descending order?

a) $A^{\frac{7}{3}}, A^{\frac{4}{3}}, A^{\frac{1}{3}}, A^{\frac{2}{3}}$

b) $A^{\frac{1}{3}}, A^{\frac{2}{3}}, A^{\frac{7}{3}}, A^{\frac{4}{3}}$

c) $A^{\frac{1}{3}}, A^{\frac{2}{3}}, A^{\frac{4}{3}}, A^{\frac{7}{3}}$

d) $A^{\frac{7}{3}}, A^{\frac{4}{3}}, A^{\frac{2}{3}}, A^{\frac{1}{3}}$

4) If A is less than negative one, which of the following is listed in ascending order?

a) A^2, A^3, A^4, A^5

b) A^4, A^5, A^2, A^3

c) A^5, A^4, A^3, A^2

d) A^5, A^3, A^2, A^4

5) If A is less than negative one, which of the following is listed in ascending order?

a) $A^{-2}, A^{-3}, A^{-4}, A^{-5}$

b) $A^{-3}, A^{-5}, A^{-4}, A^{-2}$

c) $A^{-3}, A^{-4}, A^{-5}, A^{-2}$

d) $A^{-3}, A^{-5}, A^{-2}, A^{-4}$

6) If A is less than negative one, which of the following is listed in ascending order?

a) $-A^{-2}, -A^{-4}, -A^{-5}, -A^{-3}$

b) $-A^{-2}, -A^{-3}, -A^{-4}, -A^{-5}$

c) $-A^{-2}, -A^{-3}, -A^{-5}, -A^{-4}$

d) $-A^{-2}, -A^{-4}, -A^{-3}, -A^{-5}$