

Find an equation

with  $\frac{1}{2} < x < 1$

1. Find some numbers and give formulae describing each

1.  $2^2, 3^2, 4^2, 5^2, 6^2, 7^2, 8^2, 9^2$

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 $2^2 = 4, 3^2 = 9, 4^2 = 16, 5^2 = 25, 6^2 = 36, 7^2 = 49, 8^2 = 64, 9^2 = 81$

2.  $1, 2, 3, 4, 5, 6, 7, 8, 9$

3.  $1, 2, 3, 4, 5, 6, 7, 8, 9$

4.  $1, 2, 3, 4, 5, 6, 7, 8, 9$

5.  $1, 2, 3, 4, 5, 6, 7, 8, 9$

6.  $1, 2, 3, 4, 5, 6, 7, 8, 9$

7.  $1, 2, 3, 4, 5, 6, 7, 8, 9$

8.  $1, 2, 3, 4, 5, 6, 7, 8, 9$

2. Find some numbers and make this table with and without you by using the following

1.  $2^2, 3^2, 4^2, 5^2, 6^2, 7^2, 8^2, 9^2$

2.  $1, 2, 3, 4, 5, 6, 7, 8, 9$

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3. Answer the following

a. What is the sum of the first 100 numbers?

b. What is the sum of the first 100 squares?

c. What is the sum of the first 100 cubes?

d. What is the sum of the first 100 fourth powers?

e. What is the sum of the first 100 fifth powers?

f. What is the sum of the first 100 sixth powers?

g. What is the sum of the first 100 seventh powers?

h. What is the sum of the first 100 eighth powers?

i. What is the sum of the first 100 ninth powers?

j. What is the sum of the first 100 tenth powers?

k. What is the sum of the first 100 eleventh powers?

l. What is the sum of the first 100 twelfth powers?

m. What is the sum of the first 100 thirteenth powers?

n. What is the sum of the first 100 fourteenth powers?

o. What is the sum of the first 100 fifteenth powers?

p. What is the sum of the first 100 sixteenth powers?

q. What is the sum of the first 100 seventeenth powers?

r. What is the sum of the first 100 eighteenth powers?

s. What is the sum of the first 100 nineteenth powers?

t. What is the sum of the first 100 twentieth powers?