

Find an equation

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

1. Find some numbers and give formulae describing each

1.  $2, 4, 6, 8, 10, 12, 14, 16, 18, 20$

1.  $1, 2, 3, 4, 5, 6, 7, 8, 9, 10$   
 $2n$  for  $n$

2.  $1, 4, 9, 16, 25, 36, 49, 64, 81, 100$

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2. Find some numbers and make this into a table and explain why the numbers are

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3. Answer the following

a. What does the word "sequence" mean?

b. What does the word "term" mean in a sequence?

c. What does the word "index" mean in a sequence?

d. What does the word "nth term" mean in a sequence?

e. What does the word "common difference" mean in a sequence?

f. What does the word "common ratio" mean in a sequence?

g. What does the word "arithmetic sequence" mean?

h. What does the word "geometric sequence" mean?

i. What does the word "harmonic sequence" mean?

j. What does the word "Fibonacci sequence" mean?

k. What does the word "Pascal's triangle" mean?

l. What does the word "binomial theorem" mean?

m. What does the word "combinatorics" mean?

n. What does the word "probability" mean?

o. What does the word "statistics" mean?

p. What does the word "set theory" mean?

q. What does the word "logic" mean?

r. What does the word "mathematics" mean?

s. What does the word "science" mean?

t. What does the word "technology" mean?

u. What does the word "art" mean?

v. What does the word "music" mean?

w. What does the word "literature" mean?

x. What does the word "history" mean?

y. What does the word "geography" mean?

z. What does the word "biology" mean?

aa. What does the word "chemistry" mean?

ab. What does the word "physics" mean?

ac. What does the word "astronomy" mean?

ad. What does the word "meteorology" mean?

ae. What does the word "environmental science" mean?

af. What does the word "social science" mean?

ag. What does the word "humanities" mean?