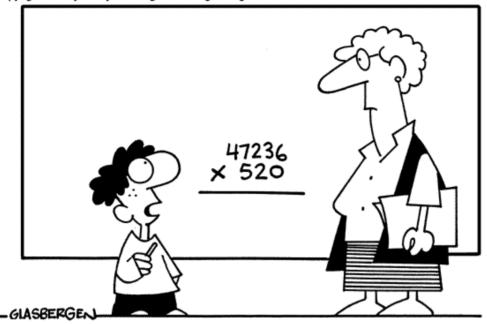
1.1 Arithmetic Sequences

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"Aren't there enough problems in the world already?"

Sequences

· a list of numbers, often

with a paltern

For example:

3,7,11,15,19

Arithmetic

sequence

220,18,16....

Geometric 2,4,8,16,32 ~7~7 x2 x2 se quence Arithmetic Seguence 12,16,4 =) lecus Li, tz, to to => common difference, d" abor Ex. 4, 8, 12, 11, 20 t10= > 七, = 4 C = A£ = 4 tz=4+1.4=8

$$t_2 = 7 + 1.7 - 0$$
 $t_3 = 4 + 2.4 = 12$
 $t_4 = 4 + 3.4 = 16$
 $t_{n} = t_1 + (n-1)d$
 $t_{10} = 4 + 9.4$
 $t_$

$$t_{9} = t_{3} + 5d$$
 $34 = 4 + 5d$
 $30 = 5d$
 $d = 6$
 $t_{1} = t_{1} + (n-1)d$
 $t_{2} = t_{3} + 4d$
 $t_{3} = t_{4} + 4d$
 $t_{4} = t_{1} + 4d$
 $t_{5} = t_{1} + 4d$
 $t_{7} = t_{1} + 4d$
 $t_{1} = -8$
 $t_{1} = -8$
 $t_{1} = -8$
 $t_{1} = -8$

