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Name: _____ Date: _____

Section: Revision Questions

1. Write a recursive formula for the sequence
 $4, 12, 20, 28, \dots$

2. Write a recursive formula for the sequence
 $25, 20, 15, 10, 5, 0, -5, -10, \dots$

3. Write a recursive formula for the sequence
 $-2, -4, -8, -16, \dots$

4. Write a recursive formula for the sequence
 $2, 9, 16, 25, \dots$

5. Write a recursive formula for the sequence
 $3, 30, 307, \dots$

6. Find the first 4 terms of the sequence
 $a_1 = 8$
 $a_n = 11/5 a_{n-1}$

7. Find the first 4 terms of the sequence
 $a_1 = 8$
 $a_n = (1 - 1/5) a_{n-1}$

8. Find the first 4 terms of the sequence
 $a_1 = 8$
 $a_n = (2n - 1) a_{n-1}$

9. Find the first 4 terms of the sequence
 $a_1 = 8$
 $a_n = (2n - 1) a_{n-1}$

10. Find the first 4 terms of the sequence
 $a_1 = 8$
 $a_n = (1/2) a_{n-1}$

Score	1	2	3	4	5	6	7	8	9	10
Percentage Score	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

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Geometric sequence word problems

Sally grows strawberries. The first year she planted 6 seeds. The next year she harvested and planted 18 seeds. The next year after that she planted 54.

A) is this arithmetic or geometric?

B) How many seeds will she plant in her 8th year?

X	1	2	3
Y	6	18	54

(Handwritten notes: 6, 18, 54 with arrows and 'x 3' indicating a geometric sequence)

Name : _____ Score : _____

Teacher : _____ Date : _____

Arithmetic Sequences

Determine whether each sequence is arithmetic. If so, find the common difference.

- 1) 15.2, 8.5, 1.8, -4.9 ...
- 2) 8.4, 16.1, 23.8, 31.5 ...
- 3) 5.1, -0.8, -6.7, -12.6 ...
- 4) 14.3, 20.3, 26.3, 32.3 ...

Find the first four terms and stated term given the arithmetic sequence, with a_1 as the 1st term.

- 5) $a_n = 25.5 - 6.8n$, a_{10}
- 6) $a_n = 25 - 10n$, a_5
- 7) $a_n = 11 + 9n$, a_6
- 8) $a_n = 65 - 35n$, a_8

Given the first term and common difference, find the first four terms and the formula.

- 9) $a_1 = 25$, $d = 100$
- 10) $a_1 = 5$, $d = 5$
- 11) $a_1 = 24$, $d = -15$
- 12) $a_1 = 9$, $d = -50$

Geometric Sequences Word Questions

3. A company predicts a yearly profit of £120 000 in the year 2013. The company predicts that the yearly profit will rise each year by 5%. The predicted yearly profit forms a geometric sequence with common ratio 1.05

(a) Show that the predicted profit in the year 2016 is £138 915 (1)

(b) Find the first year in which the yearly predicted profit exceeds £200 000 (5)

(c) Find the total predicted profit for the years 2013 to 2023 inclusive, giving your answer to the nearest pound. (3)

4.

Mr. King will be paid a salary of £135 000 in the year 2005. Mr. King's contract promises a 4% increase in salary every year, the first increase being given in 2006, so that his annual salaries form a geometric sequence.

(b) Find, to the nearest £100, Mr. King's salary in the year 2008. (2)

Mr. King will receive a salary each year from 2005 until he retires at the end of 2024.

(c) Find, to the nearest £1000, the total amount of salary he will receive in the period from 2005 until he retires at the end of 2024. (4)

5.

In the first month after opening, a mobile phone shop sold 300 phones. A model for future sales assumes that the number of phones sold will increase by 5% per month, so that 300 x 1.05 will be sold in the second month, 300 x 1.05^2 in the third month, and so on.

Using this model, calculate

(a) the number of phones sold in the 24th month. (2)

(b) the total number of phones sold over the whole 24 months. (2)

This model predicts that, in the Nth month, the number of phones sold in that month exceeds 3000 for the first time.

(c) Find the value of N. (3)

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Arithmetic and Geometric Mean

Find the missing terms in each arithmetic sequence.
1) ...5...-5... 2) ...-4...-6...

3) ...-9...-23... 4) ...-1...-17...

5) ...-2...-20... 6) ...-4...-14...

Find the missing terms in each geometric sequence.
7) ...1...16... 8) ...1...256...

9) ...5...80... 10) ...3...108...

11) ...5...3125... 12) ...2...54...



Geometric sequence word problems worksheet with answers. Geometric sequence and series word problems worksheet.

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Answer :Amount spent when the first set of letters is mailed : =A A 4A AeAAA 2= \$8Amount spent when the second set of letters is mailed : =A A 4A AeAAA 4A AeAAAA A2= \$32Amount spent when the third set of letters is mailed : =A A 4A AeAAA 4A AeAAAA A2= \$128If this pattern continues, we will have a geometric sequence with the first term 8 and common ratio 4 as shown below.A 8, 32, 128, onlinemath4all.com Learn Maths from the best First Lesson Free! Exercise 1 The second term of a geometric sequence is , and the fifth term is . The 1st book costs 1 dollar, the 2nd, 2 dollars, the 3rd, 4 dollars, and the 4th, 8 dollars, and so on. Answer :1, 2, 4, 8,This is a geometric sequence with a1A A = 1 and r = 2.Formula for the sum of first n terms of a geometric sequence.SnA A = a1(1 - rn)/(1 - r)Substitute n = 10, a1A A = 1 and r = 2.S10A A = (1(1 - 210)/(1 - 2) = 1(1A A - 1024)/(1-1) = -1023/(-1) = 10235. Answer :5 + 5 + 5 + Assuming that the process is unaltered and it costs \$2 to mail one letter, find the amount spent on postage when 8thA A set of letters is mailed. Determine the sequence. dollars Solution of exercise 7 The sides of a square, l, have lines drawn between them connecting adjoining sides with their midpoints. Substitute r = -4 in (1).A Aa1(-4)A A = 6a1A A = -3/2 Substitute r = 4 in (1).A Aa1(4)A A = 6a1A A = 3/2 The possible values of the first term are -3/2 and 3/2.3. Answer :1, 2, 4, 8, 512This is a geometric sequence with the first term 1 and common ratio 2.A Alet an = 512.A Aa1rn - 1A A = 512SubstituteA Aa1A A = 1 and r = 2.A A(2)n - 1A A = 512Write 512 as a power of 2.2n - 1A A = 29n - 1 = 9n = 104. Answer :anA A = 32n-1 a1A A = 32(1) - 1 = 32 - 1 = 31 = 3 a2A A = 32(2)-1 = 34 - 1 = 33 = A A 27 Common ratio : r = a2/a1r = 27/3r = 9Formula for the sum of first n terms of a geometric sequence.SnA A = a1(1 - rn)/(1 - r)Substitute n = 8, a1A A = 3 and r = 9.S8A A = 3(1 - 38)/(1 - 3) = 3(1A A - 6561)/(-2) = .4 .4 e 4- onos enumoc otroppar led ilbissop irolav 14A A A = r A .ital i ibmartne us atardauq ecdiar erednerP61 = A2r:)1(A A A A)2(- A69 = A3r1a69 = A1 - 4r1a69 = A4a)1(- A6 = Ar1a6 = A1 - 2r1a6 = A2a 69 = A4a Adna 6 = A2a:atsopsiR .2- enumoc otroppar li e 3 enimret omirp li ah acirtemoeg azneueqes anU A.1 + 81 + 6 + 2:atsopsiR .60489 =)0823(3

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