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Linear sequences worksheet pdf word file

Sequence Word Problems

- Name: _____ Date: _____
- Laura opened a bank account with an initial \$500. She is depositing \$45.20 per week into her bank account. How many money will she have in her bank account after weeks?
 - Zarah's 100 meter dash times for her first four races were 14 seconds, 13 seconds, 12.8 seconds, and 12.2 seconds. Assuming her times will decrease at the same rate. What will the time for her 8th race be seconds?
 - Three yeast cells were placed in a laboratory dish at 2:00 pm. The number of yeast cells doubles every ten minutes. Calculate the number of cells in the dish after one hour yeast cells.
 - At a temperature of 20°C the common amoeba reproduces by splitting in half every 24 hours. If we start with a single amoeba how many will there be after 8 days? amoeba.
 - Jack practices the guitar every day. The first day he practices for 5 minutes. The next day he practices for 10 minutes. The following days he increases his practice by 5 minutes. How many days will it have taken him to practice for a total of 100 and 15 minutes from the first day? days.

Sequences: finding terms from a table

Exercise 10a

1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

Exercise 10b

1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

Exercise 10c

1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

Exercise 10d

1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

Linear sequences dominoes

5, 11, 17, 23	$4n + 1$	3, 8, 13, 18	$3n + 4$
1, 3, 5, 7	$6n - 1$	-1, 2, 5, 8	$8n - 7$
2, 6, 10, 14	$7n + 1$	4, 10, 16, 22	$7n - 2$
1, 9, 17, 25	$6n + 1$	4, 11, 18, 25	$3n - 4$
8, 15, 22, 29	$5n - 2$	5, 9, 13, 17	$3n - 1$
5, 12, 19, 26	$7n - 3$	7, 10, 13, 16	$2n + 4$
2, 5, 8, 11	$5n + 2$	7, 12, 17, 22	$4n - 2$
6, 8, 10, 12	$8n - 1$	6, 11, 16, 21	$4n$
0, 4, 8, 12	$2n - 1$	7, 13, 19, 25	$4n - 4$
7, 15, 23, 31	$5n + 1$	4, 8, 12, 16	$6n - 2$

term value = $a + (n - 1)d$

Finding the nth term of a Sequence from 2 Terms

a = the first term d = the common difference

Use these values for a , n & d to find an expression for the n th term of the sequence

A) 1st term = 4 6th term = 34 B) 1st term = 5 7th term = 29 C) 1st term = 4 9th term = 60 D) 1st term = 4 6th term = 34

For these questions we don't know the first term. We must form two simultaneous equations and eliminate a to find d .

E) 3rd term = 15 6th term = 27 F) 4th term = 33 8th term = 61 G) 2nd term = -2

$15 = a + (3 - 1)d$ $27 = a + (6 - 1)d$

$15 = a + 2d$ $27 = a + 5d$

$27 = a + 5d$

$15 = a + 2d$

H) 3rd term = 10 8th term = 40 I) 5th term = 50 10th term = 90 J) 2nd term = 0 7th term = -20 K) 6th term = 10

Linear Programming Problems

1. A factory uses two types of glass, red and white. Machine A can produce 100 units of red glass and 200 units of white glass per hour. Machine B can produce 200 units of red glass and 100 units of white glass per hour. The factory has 1000 units of red glass and 1500 units of white glass available. How many units of each glass should be produced to maximize profit?

Class	Machine A	Machine B	Profit
Red	100	200	10
White	200	100	15

2. Identify and label variables. x = # of red y = # of white

3. Determine the objective function. "Very easy to maximize profit!"

4. List and graph the constraints.

5. Find the corner points of the feasible region.

6. Evaluate the objective function at each corner point.

7. The factory must also produce 1000 units of red glass and 1500 units of white glass. Is this possible?

Kindergarten Math Worksheets 1st Grade Math Worksheets 2nd Grade Math Worksheets 3rd Grade Math Worksheets 4th Grade Math Worksheets 5th Grade Math Worksheets 6th Grade Math Worksheets 7th Grade Math Worksheets 8th Grade Math Worksheets Benefits of Math worksheets Math worksheets can offer various benefits and can help in effective learning. How Can Math Worksheets be Used to Improve Concentration Levels? Math worksheets consist of visuals that help students visualize different concepts and see things from a broader perspective which can enhance learning to a great extent. It helps the teacher to assign questions related to all the topics to kids in the form of worksheets. Can Math Worksheets Help in Understanding Concepts? Several online math worksheets are interactive with relevant images. It really is one of the very best websites around. In addition to this, they also learn many transferable skills such as critical thinking, logic, reasoning, and analytical abilities. Math worksheets are an amazing way to find a host of practice sums. Free Interactive Math Worksheets for Students, Parents, and Teachers Each math worksheet is meticulously tailored to ensure that it not only complements the learning done in school but challenges the child to excel above that. These skills are important and can give students a lifelong advantage. Math worksheets consist of a dynamic arrangement of questions that leads to the understanding of every topic. Hence, always solve the math worksheet in the given order of organization to get the maximum benefit and try not to skip any questions. So pick a topic and start your learning journey! # A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Math Worksheets by Grade: Math Worksheets for Grades 1 to 10 Math worksheets are available for students of all grades from grade 1 to grade 10. Printable Free Math Worksheets - Grade 1 to 8 Math worksheets consist of a variety of questions like Multiple choice questions (MCQs), Fill in the Blanks, essay format questions, matching questions, drag and drop questions, and many more. Is It Necessary to Use Math Worksheets? Click on your grade below to access the worksheets of the topics from the grade. Math Worksheets by Topics: The links to the list of math worksheets available on different topics have been arranged alphabetically for your convenience. You will need to register for a TES account to access this resource, this is free of charge. Open link Number Jumble A nice starter activity in which the first five terms for some given sequences must be located in a number grid, in a similar style to a wordsearch. The activity leads to a consideration of the golden ratio and a golden spiral. As kids are exposed to several different types of

problems they get an idea of what kind of questions will be framed in an examination. You will need to register for an account to access the content. It helps the kids to revise and give more emphasis to the concepts and the kids tend to always remember it. [Open link Whirling Fibonacci Squares](#) Fibonacci squares activity [Open link Number Sequences](#) Number sequences worksheet [Open link arrow back Back to Linear Sequences](#) Whether you want a homework, some cover work, or a lovely bit of extra practise, this is the place for you. Why is Math Worksheet Important for Students? Solving math worksheets based on different topics can also boost a student's confidence and help them score well in school as well as competitive exams. This is great introductory lesson for teaching patterns. Our math worksheets exist to achieve two goals: To facilitate a clear understanding of concepts and reinforce the importance of internalizing first principles. Math worksheets help kids analyze problems, break them down into chunks, and then solve them. Math worksheets are curated for different grades and topics. Thus, these worksheets are created in a way so that irrespective of the examination, be it school or competitive, a child develops the required knowledge and skill to successfully attempt it. As children get conditioned to interpreting the why and how behind a question they can improve their problem-solving abilities. Thank you for stopping by. Show Your Work Keywords: sequences, equation, math, junior high, special education, warm up, bell ringer , STAAR, objectives, algebra, expressions [Diagnostic Questions - Sequences 1 AQA](#) have teamed up with [Craig Barton's Diagnostic Questions](#) website to share free diagnostic questions assessment for our new 2017 GCSE Maths specification. The purpose of math worksheets is to provide practice sums to children enabling them to master the topic within no time. They are driven towards supplementing a child's learning at school and help him to improve his mathematical skills. What is the Best Way to Attempt Math Worksheet Questions? [How Can Math Worksheets Help to Boost Problem-solving Skills?](#) [Open link Diagnostic Questions - Sequences 3 AQA](#) have teamed up with [Craig Barton's Diagnostic Questions](#) website to share free diagnostic questions assessment for our new 2017 GCSE Maths specification. It helps both the students and the parents. [Open link Maths is Everywhere! Sequences activity](#) [Open link National STEM Centre Sequences](#) Three packs of activities about sequences, starting with very basic generation of the terms of sequences, through to more open ended investigations. [Open link Square, Triangular and Cube numbers](#) A fun starter activity in which students must use the digits 1- 9 to solve problem involving square, triangular and cube numbers. If kids are having fun while solving worksheet questions their concentration will automatically improve. Math worksheets play a very important role in learning the concepts clearly. It also helps in the development of reasoning skills. Math worksheets help kids to instill crystal clear concepts as they test a child's knowledge and help them to improve in areas that might be problematic. Worksheet Name [1 2 3 Create Sequence - Given nth Term](#) [1 2 3 Create Sequence - Given Rule and 1st Term](#) [1 2 3 Linear Sequences](#) [1 2 3 Sequences - Term To Term Rule](#) [1 2 3 Sequences - Missing Terms and Rule](#) [1 2 3 Corbett Maths keyboard_arrow_up](#) [Back to Top](#) [Corbett Maths](#) offers outstanding, original exam style questions on any topic, as well as videos, past papers and 5-a-day. You can find several well-organized worksheets on all mathematical topics below. With the Cuemath program, your child will get the best-in-class practice worksheets that have been expertly designed by our highly qualified curriculum team. Additionally, they are equipped with fun graphics that improve the level of engagement and motivation to solve more sums. These Grade 1 to 8 math worksheets have visual simulations which help students see things in action and get an in-depth understanding of the topics. These worksheets can enhance the students learning to a great extent thus giving them a strong mathematical foundation. Thus, it is advisable to incorporate math worksheets as part of your regular curriculum. The questions are presented in a structured way to help students develop crystal clear concepts. [Open link Diagnostic Questions - Sequences 2 AQA](#) have teamed up with [Craig Barton's Diagnostic Questions](#) website to share free diagnostic questions assessment for our new 2017 GCSE Maths specification. Topic-wise Math Worksheets The best way to learn any topic is by solving practice problems. They have kindly allowed me to create 3 editable versions of each worksheet, complete with answers. Once a child is introduced to a topic, the only way to gauge his understanding of it is by solving practice questions. A well-structured math worksheet has sections with a gradual increase in the level of difficulty. Math worksheets help the children to be active. It also helps students in active learning as it creates an engaging learning experience with the help of a different variety of questions rather than passively consuming video and audio content. [Open link Sequences](#) Sequences quiz [Open link Sequences Quiz](#) A ten question online multiple choice quiz in which students must predict missing terms and the rules for various sequences including the use of algebraic expressions for linear sequences. Are Math Worksheets Useful for Competitive Exams? It can help students boost their logical thinking. Math worksheets are documents available online or offline that consist of a list of practice questions on a particular topic. Contents Mathster is a fantastic resource for creating online and paper-based assessments and homeworks. Practicing these math worksheets regularly helps students to improve their speed and accuracy by understanding the concepts clearly. Hence, they prove to be a good resource that children can use for instilling a robust mathematical foundation. To aid in the retention of concepts gained via targeted practice. Organizing the completed worksheets would help the parents to track the kid's progress. And best of all they all (well, most!) come with answers. [Open link Whirling Fibonacci Sequences](#) A practical activity in which students draw a sequence of squares with side lengths taken from the terms of the Fibonacci sequence [1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144](#). Little kids have extraordinary capacities of learning and learn quicker through experiential activities. These worksheets reinforce the step-wise learning mechanism which helps students approach a problem strategically, recognize their mistakes, and develop mathematical skills. Math worksheets give students immense time flexibility and allow them to solve problems at their own pace. Math worksheets will be available for the full range of concepts that the child will be learning in their particular grade. Students create a process chart and find the nth term.

2017 GCSE Maths specification.

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