

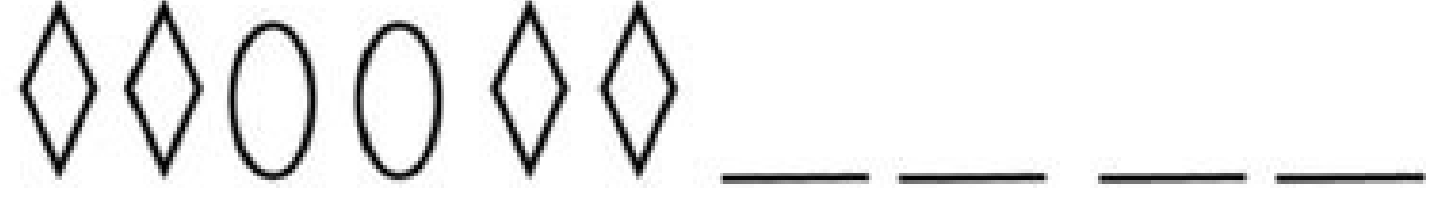
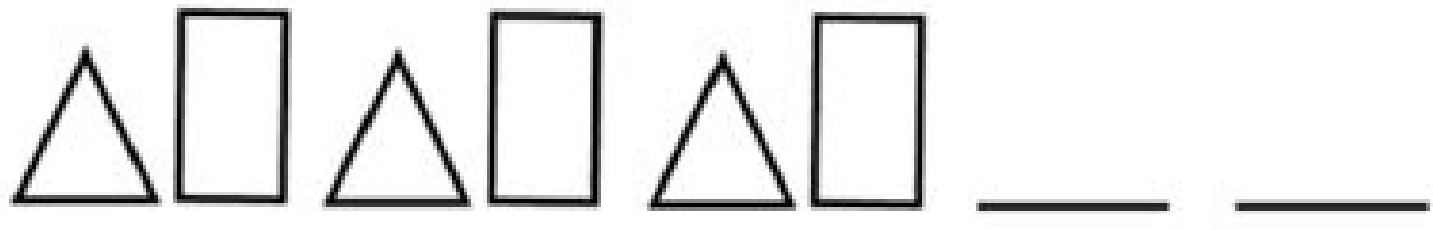
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**Patterns with geometric shapes**

Kindergarten Simple Math Patterns Worksheet

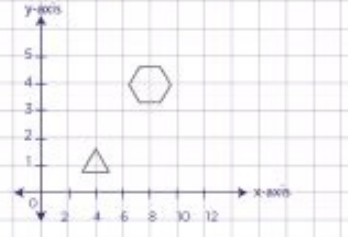
Complete the patterns:



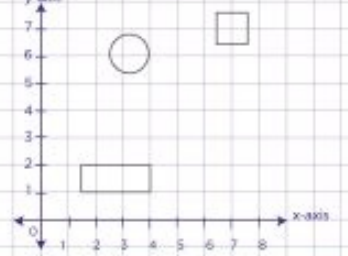
Name: \_\_\_\_\_ Class: \_\_\_\_\_

Objects on a coordinate plane

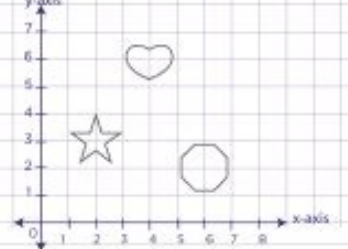
a. Find the y-coordinate plane of the hexagon.



b. Find the coordinates plane of the square.



c. Find the shape that has coordinates (6, 4).



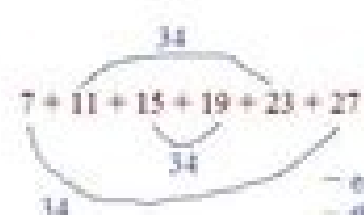
$\begin{array}{r} 123 \\ \times 456 \\ \hline \end{array}$	$\begin{array}{r} 234 \\ \times 567 \\ \hline \end{array}$	$\begin{array}{r} 345 \\ \times 678 \\ \hline \end{array}$
$\begin{array}{r} 456 \\ \times 789 \\ \hline \end{array}$	$\begin{array}{r} 567 \\ \times 890 \\ \hline \end{array}$	$\begin{array}{r} 678 \\ \times 901 \\ \hline \end{array}$
$\begin{array}{r} 789 \\ \times 012 \\ \hline \end{array}$	$\begin{array}{r} 890 \\ \times 123 \\ \hline \end{array}$	$\begin{array}{r} 901 \\ \times 234 \\ \hline \end{array}$
$\begin{array}{r} 012 \\ \times 345 \\ \hline \end{array}$	$\begin{array}{r} 123 \\ \times 456 \\ \hline \end{array}$	$\begin{array}{r} 234 \\ \times 567 \\ \hline \end{array}$

III. Series

A. Solve the following

1) Arithmetic; 1st term: 7 common difference: 4

$$S_6 = 102$$



$$S_n = \frac{n(a_1 + a_n)}{2} \quad \text{Arithmetic}$$

2) Geometric; 1st term: 5 common ratio: 2

$$S_4 = 75$$

$$5 + 10 + 20 + 40 = \frac{5(1-2^4)}{1-2} = \frac{5(1-16)}{-1} = 75$$

$$S_n = \frac{a_1(1-r^n)}{1-r} \quad \text{Geometric}$$

B. Answer the following (using formulas)

1) Find the 10th partial sum of the geometric series with 1st term 400 and common ratio .9

$$\frac{a_1(1-r^n)}{1-r} = \frac{400(1-.9^{10})}{1-.9} = \frac{260.5}{.1} = 2605$$

2) Find the 40th partial sum of the following:

$$32 + 38 + 44 + \dots$$

First term: 32  
Common difference: 6  
40th term:  $32 + 6(39) = 266$

$$\frac{n(a_1 + a_n)}{2} = \frac{40(32 + 266)}{2} = 20(298) = 5960$$

IV. Summations and Sigma Notation

A) Solve

1)  $\sum_{T=1}^5 T^2 = 55$

- $T_1 = 1$
- $T_2 = 4 \quad 1 + 4 + 9 + 16 + 25 = 55$
- $T_3 = 9$
- $T_4 = 16$
- $T_5 = 25$

2)  $\sum_{X=1}^{20} 3X + 5 = 730$

$$\sum_{X=1}^{20} 5 = 5(20) = 100$$

$$3 \sum_{X=1}^{20} X = 3 \left( \frac{20 \cdot 21}{2} \right) = 630$$

3)  $\sum_{m=3}^7 4m - 3 = 85$

- $m_3 = 9$
- $m_4 = 13 \quad 9 + 13 + 17 + 21 + 25 = 85$
- $m_5 = 17$
- $m_6 = 21$
- $m_7 = 25$

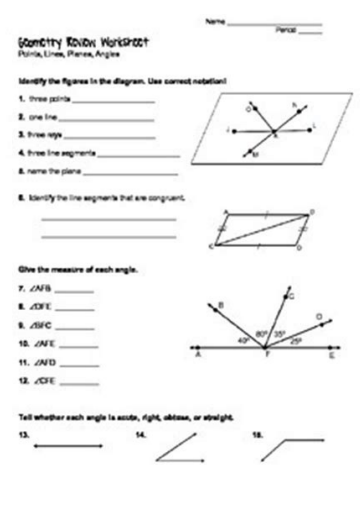
B) Describe the following series using sigma notation

1)  $4 + 8 + 12 + 16 =$

$$\sum_{i=1}^4 4i$$

2)  $2 + 6 + 18 + 54 + 162 =$

$$\sum_{k=1}^5 2 \cdot 3^{(k-1)}$$



Traverse through our range of printable worksheets on recursive formulas for geometric sequences to build on and encourage students to flaunt their knowledge of the topic. The young learners will find geometric sequences using the recursive formula and find the recursive formula given the geometric sequence. Inspire them to make the most of these effective pdf practice tools to achieve perfection in working with geometric sequences using recursive formulas. Employ the answer key to validate the results. We advocate these free worksheets for grade 8 and high school students. CCSS: HSF-BF With inputs from experts, These printable worksheets are tailor-made for 7th grade, 8th grade, and high school students. Geometric sequence worksheets are prepared for determining the geometric sequence, finding first term and common ratio, finding the nth term of a geometric sequence, finding next three terms of the sequence and much more. Sample our free worksheets and start off your geometric sequence practice! Determine Geometric Sequence These pdf worksheets require students to observe the given sequence and find the common ratio 'r' if it is a geometric sequence. MCQ These worksheets combine a sequence of real numbers where students need to find the correct geometric progression from the choices provided. Find First Term and Common Ratio Observe each geometric sequence presented in these printable worksheets for grade 7 and grade 8, and find the first term 'a' and the common ratio 'r'. Find Next Three Terms Find the next three terms of each geometric sequence by determining the common ratio of the sequence. Two word problems are included in each worksheet. Recursive Formula Students require to write the geometric sequence using the recursive formula in part A and write the recursive formula for each geometric sequence in part B. Find the Specific Term (n) Learners are required to ascertain the specific term (nth term) for each Validate your answers with our response keys. Find the parameter that lack of work sheets of printable geomide sequence require that high school students respond a series of words of words such as finding the specific type, first time or determining the value of n. There are more than 100 free fraction work sheets in PDF below to support the many concepts found with fractions. When it begins with fractions, start focusing on 1/2 and then 1/4 before moving on to equivalent fractions and using the 4 operations with fractions (adding, subtracting, multiplying and dividing) these working sheets require that students Find a half using cycles, squares, rectals, sets of objects, for example, half of 12 cookies, half of 14 chocolates, etc. Work sheets to find 1/4 sets and shapes. Starting to look at 8th, 6th's dividing the circle into equal parts. Eight pizza work sheets to show the ingredients for fractional amounts. It helps to continue learning about fun and automal fractions. Work sheets to add fractions with common denominators use these work sheets before students add fractions without finding common denominators. Additional practice. 6 work sheets to subtract fractions with a common denominator. Students are required to find the common denominator before adding. These worksheets require students to take fractions like 18/12 and reduce them or simplify them at 6/4 and 3/2 and 1 1/2. Students are required to take fractions as 3/12 to 1/4. Finding equivalent fractions is key. Students need to find ways to see that 2/4 is the same as 1/2 and will benefit from having practical activities. The worksheet for the mixed fractions tutorial included edn³Ad edn³Ad euqifilpmis y ocorpÄcer le odnasu adivid, adaucedani n³Äccarf anu a otxim orem³Än le eibmaC .euqifilpmis ogeul y ocorpÄcer le euqilpitlum ,senoiccarf sal ridivid arap .senumoc serodanimoned nis y noc senoiccarf racilpitlum arap ojabart ed sajob 01 .n³Amoc rodanimoned nu neneit sodot ,ojabart ed sajob can. Use a registration to align equivalences. These worksheets help students to see the connection between fractions and decimals. Can students apply what they know? Use these work sheets of fractional words. Multiplication, division, addition, subtraction etc. Work sheets and visual curriculum

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