

Handout**Monthly Evaluation****Eval – M2****Sections 1.5 to 1.8****/100**

1. Place the numbers in the following table. Each number may appear in more than one column. **/12**

127 350 89 675 741 562 303 417 19 685 909 030

Divisible by:			
2	3	5	10

2. Decompose each number into prime factors. Use exponential notation to represent the result. **/16**

a) **54**

54

b) **90**

90

c) **117**

117

d) **165**

165

3. Consider the following 4 expressions. Which of these are prime factorizations? Circle your answers. /12

a) $2 \times 4 \times 5^2$

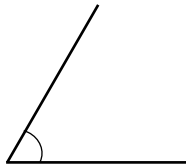
b) $2^4 \times 3 \times 11$

c) $3^2 \times 5 \times 7 \times 13$

d) $2 \times 3^3 \times 9$

4. Measure each angle. Then, identify each type of angle. /12

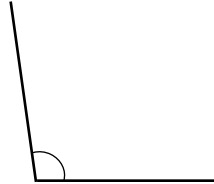
a)



Measurement: _____

Type: _____

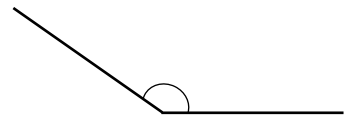
b)



Measurement: _____

Type: _____

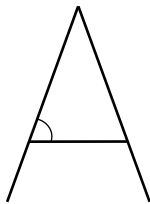
c)



Measurement: _____

Type: _____

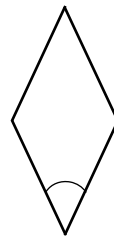
d)



Measurement: _____

Type: _____

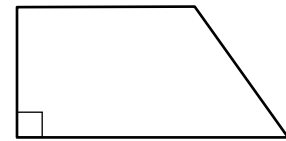
e)



Measurement: _____

Type: _____

f)



Measurement: _____

Type: _____

5. Complete these definitions with the name of each triangle. /8

a) A _____ triangle has 3 sides of different lengths.

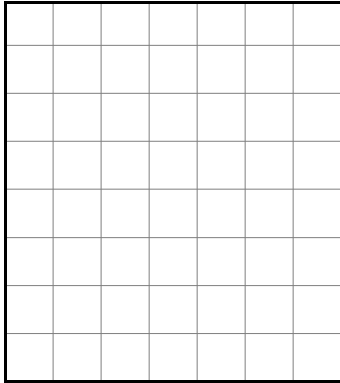
b) A _____ triangle has 1 right angle.

c) An _____ triangle has 2 congruent sides and angles.

d) An _____ triangle has 3 congruent sides.

6. Draw the following triangles using the measurements below. Use a ruler. /9

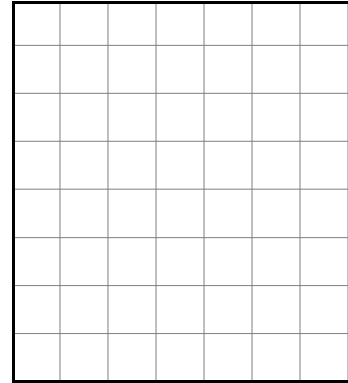
a) A right triangle with one side measuring 2 cm



b) A scalene triangle with one side measuring 3 cm



c) An equilateral triangle with measurements of your choice



7. Solve these problems. /3

a) There are between 300 and 350 people registered for a mountain bike race. The number of participants is divisible by 2, 3, 5 and 10. How many people are registered for this race?

My Calculation									

a) Margie is arranging 70 chairs in the school's auditorium for the upcoming karate show. The rows must have more than 10 chairs, but fewer than 20 chairs. Each row must have the same number of chairs. How many rows does she make? How many chairs are there in each row?

My Calculation									

8. Naomi is counting the number of kilometres she covers on her bicycle for her triathlon training. Represent her data on a broken-line graph. Then, make 2 statements based on the graph.

Day	Number of Kilometres Covered
Monday	12 km
Tuesday	15 km
Thursday	15 km
Friday	8 km
Saturday	10 km

/15

1st statement: _____

2nd statement: _____

USE REASONING

9. Students from Grade 4 and Grade 5 are organizing Track and Field Day at school. Between 90 and 125 students show up at a meeting to plan the event. When they form groups of 10, 5 students are left out. When they form groups of 3 or 5, no students are left out. How many students are at the meeting?



Solution:			

10. Find a number greater than 65 and less than 120 that has the prime number 19 in its prime factorization. The expression must include the product of 3 prime factors. Use a factor tree to represent the prime factorization. /5

Solution:			

USE REASONING

11. A field is being used for 4 games during Sports Day. The field is divided into 2 right triangles for the jumping events, an isosceles triangle for the relay races and an equilateral triangle for field hockey. Draw and colour in these 4 triangles inside the field using the legend below. Measure all the angles inside the 4 triangles. Use a letter to identify each angle.

Legend
 Equilateral triangle: blue
 Right triangle: red
 Isosceles triangle: yellow

Measurement of each angle

∠ A: _____ ∠ B: _____
 ∠ C: _____ ∠ D: _____
 ∠ E: _____ ∠ F: _____
 ∠ G: _____ ∠ H: _____
 ∠ I: _____ ∠ J: _____
 ∠ K: _____ ∠ L: _____

12. Virginia is compiling the number of students registered for extracurricular basketball activities. Here is her chart. Use a bar graph to represent the data.

Grade Level	Students Registered
Grade 3	15
Grade 4	25
Grade 5	31
Grade 6	18