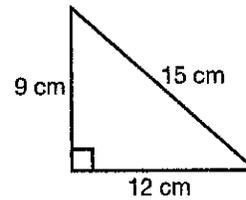## Entering 6th – 6K Summer Math

Please time yourself on each section and write the time spent at the bottom of each page.

Enjoy your summer!
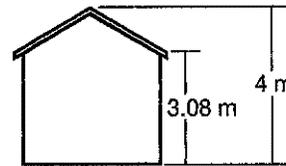
1. The ratio of boys to girls in the class is 3 to 4. If there were 12 boys, how many girls were there?

2. What is the perimeter of the triangle?

9 cm   15 cm   12 cm

3. What is the area of the triangle?

4. The lowest part of the roof is 3.08 mhigh. The peak of the roof is 4 m high. The peak is how many meters higher than the lowest part of the roof?

4 m   3.08 m

5. 2.5 x 0.03 =

6. 0.3 – square root of 36

7. 10 divided by 3 1/3

8. Marcie had 4 ½ yards of material and used 2 ½ . How much does she have left?

9. ½ + 7/10 =

10.   Rectangle is 4 ½ feet wide and 6 feet long. What is the area and perimeter of this figure?

Week 2

1. A rectangular prism has a 12 ft base. It is 6 feet wide with a depth of 5 ft. What is the volume?

2. If 75 % of the answers are correct, what fraction is correct?

3. A circle has a radius of 5 cm. What is the circumference and area of this circle?

4. How many faces, vertices and edges does a cube have?

5. $5y = 12$. What does y equal?

6. A movie is 122 minutes long. It starts at 4:25 pm. When will the movie end?

Arrange these numbers from least to greatest.   0.2, -1, ½, 1

7. Prime factor 900.

8. In a bag are 8 red marble and 2 blue marbles. What chance would have of drawing a blue marble with one try?

9. 3 + 3 x 3 – 3 divided by 3 =

10.   2 + 3.4 + 0.56 =

Week 3

1. 1 – 0.24 =

2. Which digit is in the thousandths place?   4562. 03576

3. One side of a hexagon is six inches. What is the perimeter of this figure?

4. A number cube is rolled once. What is the probability of rolling a number

   greater than 2?

5. 0.4 x 0.16 =

6. What are the first ten prime numbers?

7. A team won 12 of its 18 games. What is the win-loss ratio?

8. When Sam went to the sharpener his pencil was 6 inches long. When he came back to his seat his pencil was 3 ¾ inches long. His pencil is now how much shorter?

9. Five apricots weigh a total of 1.2 pounds. Each apricot weighs how much?

10. 0.09 divided by 0.04 =

Week 4

1. One gallon is about 3.78 liters. How many liters is ten gallons?

2. ½ divided by 1/3

3. 2/5 – 1/3 =

4. Arrange from least to greatest: ½, 2/3, 4/5, ¼

5. Monique ran 3 ¾ km and walked 4 ½ km. She wants to finish a ten km race, how much further must she go to finish this race?

6. What is the tax on a $9.29 item if the tax rate is 8%?

7. 6 1/3 – 2 2/5 =

8. How many square feet are in a yard?
   .
9. A 60- inch square table cloth is centered on a 48 - inch square table so that the same length of table cloth hangs over each edge. What is the length of each edge of the table cloth?

10. 2.3.3.5
    2.2.2.3.5   equals

Week 5

1. In a class of 28 there are 12 boys. What is the ration of boys to girls?

2. There are 117 seventh grade students and about 29 students per class. How many seventh grade classes are there?

3. Jorge punted the football 3 times. The punts were 38 yds., 42 yds., and 41 yards. What is his average yardage per punt?

4. What are the factors of 48?

5. What is the greatest common factor of 24 and 18?

6. What is the least common multiple of 10, 6 and 15?

7. Draw a circle with a diameter of 3 inches. Please insert a central angle and a chord that is not the diameter.

8. One half of ¾ is?

9. (2/7 + 3/7) – 1/7 =

10. 2/3 plus 2/3 equals?

Week 6

1. The sum of 2/3 and 2/3 is?

2. If 5/6 of a dozen pencils are sharpened, how many pencils are not sharpened?

3. The perimeter of a square is 64 inches. What is the length of each side?

4. 3/4 + x = 2   What does x equal ?

5. What would be the eighth number is his sequence? 8, 16, 24, …..

6. ¾ times what number equals one?

7. In triangle ABC, angle A = 85 degrees, angle C equals 40 degrees. What would be the measure of angle B and why?

8. In a box is 7/8 of a pizza. Sam took ½. How much pizza is left now?

9. In the equation 4w = 320, solve for w.

10. In a basketball game, Brenda made 6 of 15 shots. What fraction of her shots did she miss?

:

Week 7

1. 7610 divided by 25 =

2. 8.75 + 6 + 4.5 + 9 =

3. 1.8 – 0.25 =

4. 0.15 x 4.2 =

5. 3.64 / 0.07 =

6. 2/5 – ½ =

7. Reduce to lowest terms $\dfrac{60}{84}$

8. What fraction and decimal equals 40%?

9. 10 cubed times 10 the fourth power equals

10. 3m + 1 = 35. What is the value of m?

Week 8

1. The square root of 9 plus 3 cubed minus two squared equals

2. The coordinates of three vertices of a rectangle are (-2, 3), (4, 3) and (4, -3). What are the coordinates of the fourth vertex?

3. (-10)(-10) =

4. Three squared plus four squared equals x squared. What is the value of x?

5. Prime factor the following numbers: 70, 24, 36, 100

6. 3 (16 – 2) (5 - 3) =

7. Which uppercase letters among W,X,Y and Z have both reflective and rotational symmetry?

8. The diameter of a braided rug is 8 feet. What would be the circumference and area?

9. A right triangle has a base of 9 in, one perpendicular arm is 12 in. What is the area of this triangle?

10. Please draw and identify an equilateral, isosceles and scalene triangle.

Week 9

1. 2(5 x 2) – (8 + 6) + 4 =

2. 1/3 = x/18

3. Please draw and identify a right, acute and obtuse angle.

4. 8/10 * 6 ½ =

5. 5/8 + 2/3 + ¼ =

6. Change to an improper fraction: 8 ½, 5 ¾, 7 1/8

7. Change into a mixed number: 55/12, 18/4, 33/5

8. 0.33 divided by 0.6

9. 12.58 x .123 =

10. 1.2 + 5.87 + 8.23 + 16 =

Week 10

1. 18, 204 divided by 63 =

2. (0.3)(0.21)(0.01) =

3. (2.45)(0.21)(1.2) =

4. Find the median of this set of numbers: 84, 78, 89, 73, 68, 92, 85

5. Find the average of the set of numbers in problem 4.

6. Susan walked 1.5 miles every day for 2 weeks. How far did she walk in all?

7. 26 + 18 + 234 + 1, 088 + 245 + 63 +23,145 =

8. Marc threw the ball 53 feet on Monday. On Tuesday he threw the ball 15 feet further than the day before. On Wednesday, he threw the ball 9 feet further than on Tuesday. On Thursday he threw it an additional 8 feet. On Friday, he was able to throw the ball 16 feet less than on Thursday. How far did Marc throw the ball on Friday?

9. 19.3 – 6.004 =

10. Please add the total time spent on this math packet per day. Express your answer in hours and minutes, in minutes only and finally convert your time spent into seconds.