**Mathematics 10** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Cumulative Review Row Game**

Student A solves the problems in the left hand column, while Student B solves the problems in the right hand column. As you finish each problem, check your answer with your partner. The answers should be the same! If not, work together to find your mistake.

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| **Column A** | **Column B** |
| **M02 -** I can solve a problem that involves the conversion of SI (e.g. cm, km) and imperial units (e.g. in, ft).  |
| 112 inches is \_\_\_\_\_\_\_\_\_ cm (nearest tenth). | 311.13 yards is \_\_\_\_\_\_\_ m (nearest tenth). |
| 320 inches is \_\_\_\_\_\_\_ yards (nearest tenth). | 47 000 feet is \_\_\_\_\_\_ miles (nearest tenth). |
| **M03** - I can solve a problem involving the surface area or volume, of a cone, cylinder, prism, pyramid, or sphere. |
| Find the surface area of the following object. | Find the surface area of the following object. |
| Find the surface area of the following object. | Find the surface area of the following object. |
| Find the volume of a cone with radius 6 and height 24. | Find the volume of a sphere with surface area of  |
| Find the volume of a sphere with a diameter of 6 cm. | Find the volume of a right cone with a radius of 3 cm and a height of 12 cm. |
| **M04 -** I can solve a problem that involves one or more right triangles using sine, cosine and tangent. |
| Find the measure of the indicated angle, to the nearest degree. | Find the measure of the indicated angle, to the nearest degree. |
| **Column A** | **Column B** |
| **AN01** - I can determine the greatest common factor or least common multiple of a set of whole numbers. |
| Identify the greatest common factor of the following pair of numbers: 60 and 84 | Identify the greatest common factor of the following pair of numbers: 108 and 48 |
| **AN04** - I can multiply two polynomials and combine like terms; **AN05** - I can express a polynomial as a product of its factors. |
| Find the value of A. | Find the value of A.  |
| Find the binomial represented by A. | Find the binomial represented by A.  |
| **AN02 -** I can express a radical as a mixed radical in simplest form |
| Write  in simplest form and identify the radicand. | Write  in simplest form and identify the radicand. |
| **AN03** - I can apply the exponent laws to a variety of expressions.  |
| If , then what is the value of N? | If , then what is the value of N? |
| **RF03** - I can determine the slope of a line segment. |
| Calculate the slope between points (2,3) and (4,7). | Calculate the slope between points (5,8) and (7, 12). |
| **RF07** - I can write the equation of a linear relation using given information. |
| Write the equation, in slope-intercept form, of the line passing through points (-4,4) and (8, 10). | Write the equation, in slope-intercept form, of the line passing through points (-10,1) and (18,15). |
| Write the equation, in slope-intercept form, using the given information.  | Write the equation, in slope-intercept form, using the given information  |
| Find the equation of the line parallel to  through $(1,-\frac{3}{2} )$ | Find the equation of the line through $(3,-\frac{11}{2} )$ and $(0,\frac{1}{2} )$ |
| **RF08** - I can determine the midpoint of a line segment and the distance between two points.  |
| Find the midpoint of the line segment with endpoints at coordinates (6, 3) and (-2,-9) | Find the midpoint of the line segment with endpoints at coordinates (4,-13) and (0,7) |
| Find the distance between the points (-7,-5) and (5,3)  | Find the distance between the points (-3,4) and (5,-8) |
| **RF09** - I can determine the related range value, given a domain value for a linear function or vice versa. |
| If , determine . | If , determine . |
| Find the values of A and B, and  | Find the values of A and B, and  |
| **RF10** - I can determine the solution of a system of linear equations. |
| Solve the system of equations:   | Solve the system of equations:  |
| **FM01** - I can compare the unit price of two or more given items and determine price increase or decrease.  |
| 700 grams of cheese costs $6.23. What is the $/kg unit price? | 400 millilitres of tomato sauce $3.56. What is the $/L unit price? |
| A $300 item is on sale for $225. What is the percentage decrease in price? | A $5.00 item is on sale for $3.75. What is the percentage decrease in price? |