**LESSON 30 Repeating Decimals d**



**YOUR NAME OR ORGANIZATION**



***Teacher Copy Notes***

***New Concept***

***Practice***

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***Power Up***

|  |  |  |  |
| --- | --- | --- | --- |
| **A. Calculation:**Ronald ran 7 laps of the park in an hour. Enrique ran 4 laps in half an hour. Whose average speed was faster? | **B. Geometry:** What is the side of a square whose area is 36? | **C. Fractional Parts:**Jackie rode his bike 20 miles per hour for 1 ½ hours. How far did he ride? | **D: Number Sense:**4.5 X 4 =  |
| **E. Scientific Notation:**Write 750,000 in scientific notation. | **F. Proportion:**Gina earned $24 in 3 hours. At that rate, how much would she earn in 5 hours? | **G: Power/ Roots:**What whole number is closest to? $\sqrt{101}$ | **H: Calculation:**28 $÷$ 4 + 2 X 7 + $\sqrt{25}$ |

***New Concept***

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***Example***

Express each fraction or mixed number as a decimal.

$\frac{1}{6}$ 2 $\frac{1}{3}$

***Example***

Find $\frac{5}{6}$ of $12.47.

Before multiplying, convert $\frac{5}{6}$ into a decimal.

***Example***

Arrange in order from least to greatest.

0.3, 0.3, 0.33

We’ll write each decimal with 3 place values and compare!

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***Practice Set***

Write each fraction as a decimal number

$\frac{2}{9}$ 2 $\frac{2}{3}$ $\frac{1}{30}$

Round each decimal number to the nearest thousandth.

0.3 0.6 0.36

Arrange these numbers in order from least to greatest.

0.6, 0.6, 0.66 $\frac{1}{2}$ , 0.5 , $\frac{1}{3}$ , 0.3, 0.6

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***Written Practice***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. |  |  | 2. |  |
| There are 20 students in the algebra class. One-half of the students were boys. One-half of the boys wore T-Shirts. How many boys wore T-Shirts to algebra class>  |  | The big room measured 19 ft. 10 in. by 22 ft. 1 in. About how many square feet of carpet ae needed to recarpet the big room? |
|  |  |  |
| 3. |  |  | 4. |  |
| The four pencils in Julio’s desk have these lengths: 7 $\frac{1}{2}$, 5 $\frac{3}{4}$ , 5 in, 2 $\frac{3}{4}$What was the average (mean) of the four pencils? | Find the area of the triangle.54 |
|  |  |  |
| 5. |  |  | 6. |  |
| Find the missing degree in the triangle.42X90 |  | The $80.00 DVD player is on sale for 25% off. Find 25% of $80. |

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***Written Practice***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 7. |  |  | 8. |  |
| What is the perimeter of a square who has a side of 8. |  | Simplify:$\frac{1}{4}$ + $\frac{2}{3}$ \* $\frac{1}{2}$ |
|  |  |  |
| 9. |  |  | 10. |  |
| $\frac{7}{8}$ - $\frac{1}{8} $ ÷ $\frac{1}{4}$ | Compute 18% of Gratuity on a $3000 banquet fee. |
|  |  |  |
| 11. |  |  | 12. |  |
| What scale factor was use to dilate the rectangle?6.252.4 |  | Cruz filled his car with 10.2 gallons of gas at $2.89 per gallon. If he fills his car with about the same gas once per week, estimate how much would he have spent on gas after four weeks. |

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***Written Practice***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 13. |  |  | 14. |  |
|  |  |  |
|  |  |  |
| 15. |  |  | 16. |  |
|  |  |
|  |  |  |
| 17. |  |  | 18. |  |
|  |  |  |