| Check when | 15 total practice problems focused on the content focus for the week (problems can come from the Digits practice and Close-and-Checks OR from practice <br> work done in the Khan Academy lessons - copied onto paper). Must show ALL steps in getting to the solution. |
| :--- | :--- |
| 30 Prodigy problems if possible - or, if no internet access, 20 student-created problems with their answers and work. If doing the student-created problems, <br> these need to be mixed types of problems, focusing on the standards we have done this year. As an example, there should be division problems, fractions <br> problems, decimal problems, and algebraic expressions and equations. Hint: Use your math notebook to get ideas about what sorts of problems to include, <br> then make up some of your own. Every step must be shown in your work. |  |
| One Mixed Review "quiz" - the goal of this quiz each week will be to help you know where you still need practice. I will make up the quiz each week and send <br> it via your student email (I will also send it in the family email on Thursdays). The "Quiz" will frequently include at least one reflection question that may <br> require that you play games that I will send in email. |  |


| Content Focus and Materials | Goals for the Practice | Tasks | Check-in and support opportunities | Turning in the Work |
| :---: | :---: | :---: | :---: | :---: |
| Ratios and Rates <br> 1)Digits workbooks lessons 10-4, 10-5, 11-1, 11-2, 11-3 <br> OR <br> Khan Academy, $6^{\text {th }}$ grade, ratio application and intro to rates $\qquad$ 2) <br> Prodigy OR student created problems $\qquad$ 3) <br> Mixed Review <br> "Concept on a Page" notes | By the end of the week, students will: <br> - Understand that ratios can be referred to/written in multiple ways, and be able to "convert" from one way to another (fractions to decimals or vice versa) <br> - Use ratio relationships to solve problems involving unit rates | $\qquad$ 15 concept practice exercises Digits 10-4, 10-5 and 11-1, 11-2, 11-3, OR Khan Academy: Intro to Ratios, Equivalent Ratios, and Visualize Ratios (15 points) <br> *if doing Khan Academy or Digits online practices, please copy the problems and your work and answers onto paper and then send in. $\qquad$ 30 correct Prodigy problems OR 30 review practice problems that you make up (these must illustrate practice of $6^{\text {th }}$ grade work). ${ }^{*}$ Hard copy work must show the problem and each step in its solution. (10 points) $\qquad$ Quiz - can be emailed or written. Please do it without notes. (15 points) | Video/phone office hours: <br> Monday - Thursday: <br> 9:00 AM - 10:30 AM or <br> 4:45 PM - 5:15 PM <br> Friday: 9-10:30 and 12:12:30 "Lunch with your Teachers" <br> or Digits on line www.pearsonrealize.com <br> User name is: IDnumbertusd <br> Password is: digits56 | Hard copy work may be delivered to Freiler according to the established calendar. <br> On-line work is due no later than 2:30 PM Friday. <br> Paper work may also be submitted via email (fmartin@tusd.net ) by either scanning or taking a clear picture of the work and attaching to an email. |

Critical Notes on a Page guide for Week 2 - Ratios and Rates: use these notes to help you do the practice problems in the Close and Checks or on Khan Academy.


Mixed Review Quiz \#2 - SHOW ALL YOUR WORK

| $1.607-1.076=$ | $1456 \div 16$ | $2 \frac{5}{6} \cdot 7 \frac{4}{9}$ |
| :---: | :---: | :---: |
| $16 \frac{2}{3}-3 \frac{1}{6}$ | If a rectangular garden area had an area of 34 square feet, and the length of one side was 5 feet, what is the length of the other side? | What is the greatest common factor of 24 and 46 ? |
| Write an algebraic expression to represent 13 more than an unknown number. | Simplify by combining like terms: $4 y+16 x-7+14 x+3$ | Use commutative property to create an equivalent expression to: $3 x+14+3 y$ |
| Build a table to show how much school work you do on an average day. |  |  |


| Check when | 15 total practice problems focused on the content focus for the week (problems can come from the Digits practice and Close-and-Checks OR from practice <br> work done in the Khan Academy lessons - copied onto paper). Must show ALL steps in getting to the solution. |
| :--- | :--- |
| 30 Prodigy problems if possible - or, if no internet access, 20 student-created problems with their answers and work. If doing the student-created problems, <br> these need to be mixed types of problems, focusing on the standards we have done this year. As an example, there should be division problems, fractions <br> problems, decimal problems, and algebraic expressions and equations. Hint: Use your math notebook to get ideas about what sorts of problems to include, <br> then make up some of your own. Every step must be shown in your work. |  |
| One Mixed Review "quiz" - the goal of this quiz each week will be to help you know where you still need practice. I will make up the quiz each week and send <br> it via your student email (I will also send it in the family email on Thursdays). The "Quiz" will frequently include at least one reflection question that may <br> require that you play games that I will send in email. |  |

## Plotting rates and percentages

| Content Focus and Materials | Goals for the Practice | Tasks <br> Use check sheet above to track work | Check-in and support opportunities | Turning in the Work |
| :---: | :---: | :---: | :---: | :---: |
| Digits workbooks lessons 12-1, 12-2, 12-3, 12-4 <br> OR <br> Khan Academy, $6^{\text {th }}$ grade, Intro to Percents, Visualize Ratios, Percent/Decimal/Fraction Conversations, Ratio application <br> "Concept on a Page" notes | By the end of the week, students will: <br> - Show the relationship between ratios in graphs and/or tables <br> - Calculate and solve problems involving rates <br> - Calculate percentages <br> - Convert between the percentage, fraction and decimal forms of a quantity | 15 concept practice exercises from Digits OR Khan Academy: (15 points) <br> 30 correct Prodigy problems OR 30 review practice problems that you make up (these must illustrate practice of $6^{\text {th }}$ grade work). ${ }^{*}$ Hard copy work must show the problem and each step in its solution. (10 points) <br> Quiz - can be emailed or written. Please complete the quiz without notes. (15 points) | Video/phone office hours: Monday - Thursday: 9:00 AM - 10:30 AM or 4:45 PM - 5:15 PM <br> Friday: 9-10:30 and 12:12:30 "Lunch with your Teachers" <br> or Digits on line <br> www.pearsonrealize.com <br> User name is: IDnumbertusd <br> Password is: digits56 | All work for weeks 3 and 4 is due 5/15 or sooner. <br> Hard copy work may be delivered to Freiler at any time during packet pick-up on $5 / 15$. <br> If possible please turn online work in as it is finished. <br> Paper work may also be submitted via email (fmartin@tusd.net ) by either scanning or taking a clear picture of the work and attaching to an email. |

## Critical Notes on a Page guide for Week 3 - Plotting Rates and intro to Percentages

- Ratios can be represented as points on a coordinate plane. Graphing ratios that are equivalent to a particular ratio forms a straight line that passes through the origin. The line contains all of the ratios that are equivalent.
- Proportional ratios are ratios that have the same relationship, they can be represented as equivalent ratios (they mean the same thing).
- A percent is a specialized ratio. It compares the number to 100. The symbol we use to represent percent is $\%$. You can write a percent as a fraction with a denominator of 100 or in its decimal form.

A percent is a specialized
type of ratio that shows a comparison to 100.
A table can be used to model proportional relation

- Ratios can be expressed in multiple ways, including as a fraction or decimal.
- One type of specialized ratio is a rate.
- Fractions can be converted into a decimal form by performing the division (numerator divided by denominator)
- Decimals can be converted into a fractional form by saying the name of the decimal and then writing the fraction version of what you said ( 0.2 = "two tenths" $=2 / 10$ ) ships:

| $x$ | 1 | 3 | 4 | 6 | 12 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $y$ | 3 | 9 | 12 | 18 | 36 |

This same information could be modeled on a graph (with x going horizontally and $y$ going vertically like it does with a quadrant plane).

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When comparing relationships, it can be easiest to show things in their percent forms to do the comparisons. For example, if at a soccer game, if 15 out of every 20 people in the stands were wearing sunglasses, and 18 out of every 25 people were wearing hats, and you wanted to know which was more popular, hats or sunglasses, you could determine the percent of people wearing each to make the comparison "fair".

If $15 / 20$ of the people at the soccer game were wearing hats, we could make an equivalent fraction to determine the percent:

$$
\frac{15}{20} \cdot \frac{5}{5}=\frac{75}{100} \text { or } 75 \%
$$

OR
if 18/25 of the people at the soccer game were wearing sunglasses, we could use the decimal to determine the percent ( $18 \div 25=.72$ or $72 \%$ ) SO we can tell that hats were more popular than sunglasses ( $75 \%$ compared to 72\%)
\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%
When working with percentages, remember that the word "of" always means to multiply. So a problem like $35 \%$ of 70 would require you to multiply either the fraction or decimal form of $35 \%$ (35/100 or .35) times 70 to get the answer.

Mixed Review Quiz \#3

| $1568.112 \div 6.72=$ | $567.3 \times 306$ | $3 \frac{2}{5} \div 1 \frac{1}{4}$ |
| :---: | :---: | :---: |
| $x-6.15=48.3$ | Find the area of a triangle with a base of 9 and a height of 7.2. | Draw a number line to show the possible solution(s) for $x+7 \geq 19$ |
| You got 5 music downloads for $\$ 4.75$. Your friend got 7 downloads for $\$ 5.95$. Which of you got the better deal? | Simplify by combining like terms: $2 x+3 z+11 x-7+y+2 z$ | Use distributive property to write an equivalent expression to: $6(x+2)$ |
| Write 3 equivalent ratios to 3:7. |  |  |

