

Show all work on a separate sheet of paper.

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| <p>In the box below draw a picture or list the rules to help you with converting Fractions-Decimals-Percents</p> |
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| 1. | DIS math students were checking their work carefully on each math problem they completed. Each student completed 18 problems in 30 minutes. If each student continues at this rate, how many problems could a student complete in 4 hours? | |
| 2. | In a recent survey 78% of football fans votes Alabama as the best NCAA football team of the last 10 years. Convert 78% to a fraction in simplest form. | |
| 3. | In another survey $\frac{2}{5}$ of students voted soccer as their favorite sport and 0.15 of students voted baseball/softball as their favorite sport. What percentage of students voted for some other sport? | |
| 4. | The ratio of pepperonis to mushrooms on a pizza is 4:5. If there are a total of 81 pepperonis and mushrooms on the pizza, how many of each topping are there? | Pepperoni |
| | | Mushrooms |
| 5. | Sales tax in Southlake is 8.25%. Write 8.25% as a decimal. | |
| 6. | About $\frac{1}{10}$ of the population is left-handed. Write $\frac{1}{10}$ as a percent. | |

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| 7. | <p>Mr. Mangham finally learned how to read. His first book is 56 pages long and right now he can read at a rate of 6 pages per day. Based on this information, which of the following statements is a reasonable conclusion?</p> <p>A. He will have read more than 50% of the book after 4 days.</p> <p>B. He will have read less than $\frac{1}{4}$ of the book after 3 days.</p> <p>C. He will have 14 pages left to read after day 7.</p> <p>D. He will have read exactly 36 pages in the first 8 days.</p> | |
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Complete the chart below. All fractions should be in simplest form.

| FRACTION | DECIMAL | PERCENT | | FRACTION | DECIMAL | PERCENT |
|----------------|---------|---------|--|----------------|---------|---------|
| $\frac{5}{8}$ | | | | | 1.14 | |
| | | 0.5% | | $6\frac{3}{5}$ | | |
| | 0.92 | | | | | 88% |
| $\frac{7}{20}$ | | | | | | |

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| 22.- 23. | <p>Mr. Wright loves 80s music. He buys 36 songs every 8 days to add to his collection. How many days will it take him to reach a total of 90 songs? Write a proportion and then solve the problem. Label.</p> | Proportion |
| | | Answer |
| 24.- 25. | <p>It was third period in the secret teacher room at DIS. There were 12 teachers sleeping on the sofas and 48 teachers watching Dora the Explorer on television. Write a simplified ratio that compares the sleeping teachers to the TV watching teachers. What percent of the teachers are watching TV?</p> | Ratio |
| | | Percent watching TV |
| 26. | <p>Which pair of numbers is not equivalent?</p> <p>A. 75% and $\frac{3}{4}$ C. 0.9 and $\frac{9}{100}$</p> <p>B. $\frac{6}{200}$ and 3% D. 0.6 and 60%</p> | |

| 27. | <p>The numbers in each set shown below have a common characteristic.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Set S</p> $0.62 \quad \frac{55}{100} \quad \frac{4}{11} \quad 67\%$ </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Set T</p> $0.18 \quad \frac{1}{10} \quad \frac{5}{100} \quad 15\%$ </div> </div> <p>Which statement best describes a common characteristic of the numbers in Set S or Set T?</p> <p>A. Each number in Set T is less than 20%.</p> <p>B. Each number in Set S is less than 0.65.</p> <p>C. Each number in Set T is greater than 0.1.</p> <p>D. Each number in Set S is greater than $\frac{13}{20}$.</p> | | | | | | | | | | | | | |
|-----------------|--|-----------------|------|--|--|--------|--------|--------|------|----|-----|-----|-----|--|
| 28. | <p>A black garden ant is $\frac{17}{25}$ cm long. What is an equivalent length of this black garden ant in centimeters?</p> <p>A. 0.64 cm B. $1\frac{8}{25}$ cm C. $\frac{5}{8}$ cm D. Not here</p> | | | | | | | | | | | | | |
| 29. | <p>70.8% of the Earth's surface is covered in water. What decimal is equivalent to 70.8%?</p> | | | | | | | | | | | | | |
| 30. | <p>In a survey of 1000 people in 2012 they were asked to name their favorite season. The results are listed in the table below.</p> <table border="1" style="margin: 10px auto; text-align: center;"> <thead> <tr> <th colspan="4">Favorite Season</th> </tr> <tr> <th>Winter</th> <th>Spring</th> <th>Summer</th> <th>Fall</th> </tr> </thead> <tbody> <tr> <td>6%</td> <td>35%</td> <td>31%</td> <td>28%</td> </tr> </tbody> </table> <p>What fraction of people did not choose winter?</p> <p>A. $\frac{3}{50}$, because $\frac{3}{50} = \frac{6}{100}$</p> <p>B. $\frac{7}{25}$, because $\frac{7}{25} = \frac{28}{100}$</p> <p>C. $\frac{47}{50}$, because $100 - 6 = 94$ and $\frac{94}{100} = \frac{47}{50}$</p> <p>D. $\frac{2}{5}$, because $10 - 6 = 4$ and $\frac{4}{10} = \frac{2}{5}$</p> | Favorite Season | | | | Winter | Spring | Summer | Fall | 6% | 35% | 31% | 28% | |
| Favorite Season | | | | | | | | | | | | | | |
| Winter | Spring | Summer | Fall | | | | | | | | | | | |
| 6% | 35% | 31% | 28% | | | | | | | | | | | |