

THURSDAY LEVEL 3 REASONING AND PROBLEM SOLVING

<p>7a. Hannah has put these fractions, decimals and percentages in order from largest to smallest.</p> <div style="display: flex; justify-content: space-around; align-items: center; margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">0.781</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">$\frac{3}{8}$</div> <div style="text-align: center;"></div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">0.373</div> </div> <p>She has spilt paint on a percentage to 1 decimal place.</p> <p>What could it be? Explain your answer.</p> <p style="text-align: right;"> R</p>	<p>7b. Callum has put these fractions, decimals and percentages in order from largest to smallest.</p> <div style="display: flex; justify-content: space-around; align-items: center; margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">0.352</div> <div style="text-align: center;"></div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">$\frac{7}{20}$</div> <div style="border: 1px solid black; border-radius: 10px; padding: 5px; width: 40px; text-align: center;">0.245</div> </div> <p>She has spilt paint on a percentage to 1 decimal place.</p> <p>What could it be? Explain your answer.</p> <p style="text-align: right;"> R</p>
<p>8a. Complete the calculation using a decimal and a percentage.</p> <div style="margin: 10px 0;"> $\frac{14}{16} > 82.1\% < \square > \square$ </div> <p>Find 3 possibilities.</p> <p style="text-align: right;"> PS</p>	<p>8b. Complete the calculation using a decimal and a percentage.</p> <div style="margin: 10px 0;"> $\frac{20}{32} = 62.5\% > \square < \square$ </div> <p>Find 3 possibilities.</p> <p style="text-align: right;"> PS</p>
<p>9a. Suzanne says,</p> <div style="margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: 200px; margin-left: 20px;"> <p>If I use 30 sheets of paper in a pack of 80, and Jim uses 37.5%, Jim will use more because his percentage is greater than the number of sheets that I will use.</p> </div> </div> <p>What mistake has been made? Explain your answer.</p> <p style="text-align: right;"> R</p>	<p>9b. Gail says,</p> <div style="margin: 10px 0;"> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: 200px; margin-left: 20px;"> <p>If I eat 20 sweets in a pack of 80, and Tate eats 0.125 of the pack, this must mean that he will eat less than me, because 0.125 is equal to 12.5 sweets.</p> </div> </div> <p>What mistake has been made? Explain your answer.</p> <p style="text-align: right;"> R</p>

a) Use the digit cards to make the statement correct.



$$0.3 < \frac{\square}{10} < 80\%$$

How many different solutions can you find?

b) Use the digit cards to write a percentage greater than $\frac{2}{5}$ but less than 75%.



$$\frac{2}{5} < \square < 0.75$$

How many different percentages can you find?