

Avon Public Schools
Math Assessment
Grade 4 Unit 5 Review KEY

Common Core State Standards taught and assessed in Unit 5.

Student Score: _____ / 61 points

4.NF.3	<p>CCSS.Math.Content.4.NF.B.3 Understand a fraction a/b with $a > 1$ as a sum of fractions $1/b$.</p> <p>CCSS.Math.Content.4.NF.B.3a Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.</p> <p>CCSS.Math.Content.4.NF.B.3b Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. <i>Examples:</i> $3/8 = 1/8 + 1/8 + 1/8$; $3/8 = 1/8 + 2/8$; $2\ 1/8 = 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8$.</p> <p>CCSS.Math.Content.4.NF.B.3c Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.</p> <p>CCSS.Math.Content.4.NF.B.3d Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.</p>
4.NF.4	<p>CCSS.Math.Content.4.NF.B.4 Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.</p> <p>CCSS.Math.Content.4.NF.B.4a Understand a fraction a/b as a multiple of $1/b$. <i>For example, use a visual fraction model to represent $5/4$ as the product $5 \times (1/4)$, recording the conclusion by the equation $5/4 = 5 \times (1/4)$.</i></p> <p>CCSS.Math.Content.4.NF.B.4b Understand a multiple of a/b as a multiple of $1/b$, and use this understanding to multiply a fraction by a whole number. <i>For example, use a visual fraction model to express $3 \times (2/5)$ as $6 \times (1/5)$, recognizing this product as $6/5$. (In general, $n \times (a/b) = (n \times a)/b$.)</i></p> <p>CCSS.Math.Content.4.NF.B.4c Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. <i>For example, if each person at a party will eat $3/8$ of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?</i></p>

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Name _____

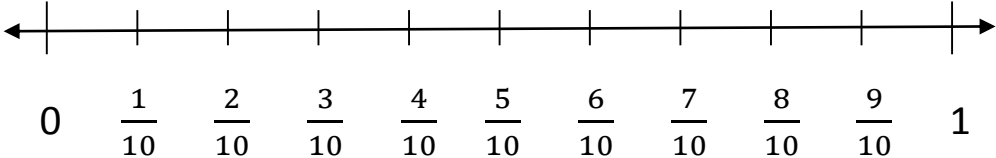
Date _____

<p>4.NF.3a 4.NF.3b</p>	<p>1. Jordan ate $\frac{3}{8}$ of a pizza. Ashley ate $\frac{2}{8}$ of the same pizza. How much of the pizza was eaten by Jordan and Ashley? Please show your work.</p> $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$ <p>Answer: $\frac{5}{8}$ of the pizza (3 points: work, answer, and label)</p>	<p>2. Write the fraction as the sum of the unit fractions.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <div style="text-align: center; border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;">1</div> <div style="display: flex; justify-content: space-around; border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 30%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{5}$ </div> <div style="border: 1px solid black; width: 30%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{5}$ </div> <div style="border: 1px solid black; width: 30%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{5}$ </div> </div> </div> $\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$ <p style="text-align: right;">(1 point)</p>			
<p>4.NF.3b</p>	<p>3. Write the fraction as a sum of fractions three different ways.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <div style="text-align: center; border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;">1</div> <div style="display: flex; justify-content: space-around; border: 1px solid black; padding: 5px;"> <div style="border: 1px solid black; width: 10%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{10}$ </div> <div style="border: 1px solid black; width: 10%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{10}$ </div> <div style="border: 1px solid black; width: 10%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{10}$ </div> <div style="border: 1px solid black; width: 10%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{10}$ </div> <div style="border: 1px solid black; width: 10%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{10}$ </div> <div style="border: 1px solid black; width: 10%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{10}$ </div> <div style="border: 1px solid black; width: 10%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{10}$ </div> <div style="border: 1px solid black; width: 10%; height: 40px; display: flex; align-items: center; justify-content: center;"> $\frac{1}{10}$ </div> </div> </div> <p>Answers will vary: $\frac{a}{10} + \frac{b}{10} + \frac{c}{10}$, where $a + b + c = 8$</p> $\frac{8}{10} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ $\frac{8}{10} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ $\frac{8}{10} = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}$ <p style="text-align: center;">(3 points, 1 per correct equation)</p>	<p>4. Write the mixed number as a fraction.</p> $1\frac{2}{5} = \frac{7}{5}$ $1\frac{7}{10} = \frac{17}{10}$ $4\frac{2}{8} = \frac{34}{8}$ <p style="text-align: right;">(3 points)</p>			
<p>4.NF.3b</p>	<p>5. Write the fraction as a whole number or a mixed number.</p> <p style="text-align: right;">(3 points)</p> <table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; text-align: center; vertical-align: middle;"> $\frac{30}{10} = 3$ </td> <td style="width: 33%; text-align: center; vertical-align: middle;"> $\frac{17}{8} = 2\frac{1}{8}$ </td> <td style="width: 33%; text-align: center; vertical-align: middle;"> $\frac{13}{3} = 4\frac{1}{3}$ </td> </tr> </table>		$\frac{30}{10} = 3$	$\frac{17}{8} = 2\frac{1}{8}$	$\frac{13}{3} = 4\frac{1}{3}$
$\frac{30}{10} = 3$	$\frac{17}{8} = 2\frac{1}{8}$	$\frac{13}{3} = 4\frac{1}{3}$			

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4.NF.3b	<p>6. Matt's teacher asks him to color $\frac{5}{6}$ of his grid. He must use three colors: green, red, and blue. There must be more red sections than green sections. How can Matt color the section of his grid to follow all of the rules?</p> <div style="text-align: center; margin: 10px 0;"> </div> <p style="text-align: right; color: red; font-weight: bold;">(1 point)</p>		
	<p>7. Find the sum or difference.</p> <div style="display: flex; justify-content: space-around; align-items: center; margin: 10px 0;"> <div style="text-align: center;"> $\begin{array}{r} 7\frac{2}{3} \\ - 3\frac{1}{3} \\ \hline 4\frac{1}{3} \end{array}$ </div> <div style="text-align: center;"> $\begin{array}{r} 2\frac{3}{8} \\ + 8\frac{2}{8} \\ \hline 10\frac{5}{8} \end{array}$ </div> </div> <p style="text-align: right; color: red; font-weight: bold;">(2 points)</p>		
4.NF.3c	<p>8. Find the sum. Write the sum as a mixed number so the fractional part is less than one.</p> <div style="display: flex; justify-content: space-around; align-items: center; margin: 10px 0;"> <div style="text-align: center;"> $\begin{array}{r} 6\frac{4}{5} \\ + 3\frac{3}{5} \\ \hline 9\frac{7}{5} = \frac{52}{5} = 10\frac{2}{5} \end{array}$ </div> <div style="text-align: center;"> $\begin{array}{r} 4\frac{3}{8} \\ + 1\frac{5}{8} \\ \hline 5\frac{8}{8} = 6 \end{array}$ </div> </div> <p style="text-align: right; color: red; font-weight: bold;">(2 points)</p>		
4.NF.3c	<table style="width: 100%; border: none;"> <tbody> <tr> <td style="width: 50%; padding: 5px; vertical-align: top;"> <p>9. Terry bought $4\frac{5}{8}$ yards of red ribbon and $2\frac{3}{8}$ yards of blue ribbon. How much more red ribbon than blue ribbon did Terry buy? Please show your work.</p> $4\frac{5}{8} - 2\frac{3}{8} = 2\frac{2}{8}$ <p style="text-align: center;">Answer: $2\frac{2}{8}$ yards</p> <p style="text-align: center; color: red; font-weight: bold;">(3 points: work, answer, and label)</p> </td> <td style="width: 50%; padding: 5px; vertical-align: top;"> <p>10. Use the properties of addition and mental math to find the sum.</p> $9\frac{1}{8} + (2\frac{5}{8} + 3\frac{7}{8}) = 15\frac{5}{8}$ $8\frac{3}{4} + (4\frac{3}{4} + 5\frac{2}{4}) = 19$ <p style="text-align: right; color: red; font-weight: bold;">(2 points)</p> </td> </tr> </tbody> </table>	<p>9. Terry bought $4\frac{5}{8}$ yards of red ribbon and $2\frac{3}{8}$ yards of blue ribbon. How much more red ribbon than blue ribbon did Terry buy? Please show your work.</p> $4\frac{5}{8} - 2\frac{3}{8} = 2\frac{2}{8}$ <p style="text-align: center;">Answer: $2\frac{2}{8}$ yards</p> <p style="text-align: center; color: red; font-weight: bold;">(3 points: work, answer, and label)</p>	<p>10. Use the properties of addition and mental math to find the sum.</p> $9\frac{1}{8} + (2\frac{5}{8} + 3\frac{7}{8}) = 15\frac{5}{8}$ $8\frac{3}{4} + (4\frac{3}{4} + 5\frac{2}{4}) = 19$ <p style="text-align: right; color: red; font-weight: bold;">(2 points)</p>
<p>9. Terry bought $4\frac{5}{8}$ yards of red ribbon and $2\frac{3}{8}$ yards of blue ribbon. How much more red ribbon than blue ribbon did Terry buy? Please show your work.</p> $4\frac{5}{8} - 2\frac{3}{8} = 2\frac{2}{8}$ <p style="text-align: center;">Answer: $2\frac{2}{8}$ yards</p> <p style="text-align: center; color: red; font-weight: bold;">(3 points: work, answer, and label)</p>	<p>10. Use the properties of addition and mental math to find the sum.</p> $9\frac{1}{8} + (2\frac{5}{8} + 3\frac{7}{8}) = 15\frac{5}{8}$ $8\frac{3}{4} + (4\frac{3}{4} + 5\frac{2}{4}) = 19$ <p style="text-align: right; color: red; font-weight: bold;">(2 points)</p>		

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4.NF.3c	<p>11. Nick's bedroom has three bookcases of different lengths. One has a length of $2\frac{1}{4}$ feet. Another has a length of $4\frac{1}{4}$ feet, and a third has a length of $2\frac{3}{4}$ feet. What is the length of all three bookcases when they are pushed end to end?</p> $2\frac{1}{4} + 4\frac{1}{4} + 2\frac{3}{4} = 8\frac{5}{4} = 9\frac{1}{4}$ <p style="text-align: right;">Answer: $9\frac{1}{4}$ feet</p> <p style="text-align: right;">(3 points, 1 pt work, 1 pt answer, 1 pt label)</p>
4.NF.3d	<p>12. Use this model to help you find the sum and difference.</p>  $\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$ $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$ <p style="text-align: right;">(2 points)</p>
4.NF.3d	<p>13. Find the sum or difference. Write the answer as a mixed number so the fractional part is less than one.</p> $\frac{2}{12} + \frac{5}{12} = \frac{7}{12}$ $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$ $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$ $\frac{9}{6} - \frac{4}{6} = \frac{5}{6}$ $\frac{7}{8} - \frac{3}{8} = \frac{4}{8}$ <p style="text-align: right;">(5 points)</p>
4.NF.3d	<p>14. Laurie walks $\frac{4}{10}$ mile to Luke's Donuts. Then she walks $\frac{3}{10}$ mile to the library. How far does she walk in all? Show your work.</p> $\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$ <p style="text-align: right;">Answer: $\frac{7}{10}$ of a mile in all</p> <p style="text-align: right;">(3 points, 1 pt work, 1 pt answer, 1 pt label)</p>

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4.NF.3c	<p>15. Use the model to help you find the difference. Answer with a fraction or a mixed number so the fractional part is less than one.</p> <div style="display: flex; align-items: flex-start; margin-bottom: 20px;"> <div style="margin-right: 20px;"> $3\frac{3}{6}$ $- 2\frac{5}{6}$ <hr style="width: 50%; margin-left: 0;"/> $4\frac{\color{red}{4}}{6}$ </div> <div style="margin-left: 20px;"> </div> </div> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> $4\frac{1}{4}$ $- 2\frac{3}{4}$ <hr style="width: 50%; margin-left: 0;"/> $\color{red}{1\frac{2}{4} \text{ or } 1\frac{1}{2}}$ </div> <div style="margin-left: 20px;"> </div> </div> <p style="text-align: center; color: red; margin-top: 10px;">(2 points)</p>
4.NF.3d	<p>16. Peter runs $\frac{4}{5}$ mile each day. He wants to know how many days he needs to run before he has run a whole number of miles. Show your work. <i>Reminder: The numbers on the number line represent the number of miles ran.</i></p> <div style="text-align: center; margin-bottom: 20px;"> </div> <p style="text-align: right; color: red; margin-top: 10px;">Answer: 5 days</p> <p style="text-align: center; color: red; margin-top: 10px;">(3 points, 1 point for showing work, 1 point for answer, 1 point label)</p>
4.NF.4a	<p>17. Write the fraction as the product of a whole number and a unit fraction.</p> <p>Example: $\frac{2}{5} = 2 \times \frac{1}{5}$</p> <div style="margin-top: 20px;"> $\frac{8}{12} = 8 \times \frac{\color{red}{1}}{\color{red}{12}}$ $\frac{9}{11} = \color{red}{9} \times \frac{\color{red}{1}}{\color{red}{11}}$ </div> <p style="text-align: right; color: red; margin-top: 20px;">(2 points)</p>

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4.NF.4a	<p>18. List the next four multiples of the unit fraction.</p> $\frac{1}{5} = \frac{2}{5}, \frac{3}{5}, \frac{4}{5}, \frac{5}{5}$ <p style="text-align: right; color: red;">(1 point)</p>								
4.NF.4a	<p>19. Anne has read $\frac{7}{8}$ of her book. She has read the same number of pages each day for seven days. What fraction of the book does Anne read of her book each day?</p> <div style="text-align: center; margin: 10px 0;"> <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">$\frac{1}{8}$</td> <td style="padding: 5px;">$\frac{1}{8}$</td> <td style="padding: 5px;">$\frac{1}{8}$</td> <td style="padding: 5px;">$\frac{1}{8}$</td> <td style="padding: 5px;">$\frac{1}{8}$</td> <td style="padding: 5px;">$\frac{1}{8}$</td> <td style="padding: 5px;">$\frac{1}{8}$</td> <td style="padding: 5px;">$\frac{1}{8}$</td> </tr> </table> </div> <p style="text-align: right; color: red;">Answer: $\frac{1}{8}$ of her book (2 points: answer, label)</p>	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$		
4.NF.4b	<p>20. List the next four multiples of the fraction.</p> $\frac{3}{5} = \frac{6}{5}, \frac{9}{5}, \frac{12}{5}, \frac{15}{5}$ $\frac{5}{8} = \frac{10}{8}, \frac{15}{8}, \frac{20}{8}, \frac{25}{8}$ <p style="text-align: right; color: red;">(mixed number can be accepted) (2 points)</p>								
4.NF.4b	<p>21. Write the product as a mixed number.</p> <div style="text-align: center; margin: 10px 0;"> </div> $3 \times \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$ <p style="text-align: right; color: red;">(1 point)</p>								
4.NF.4b	<p>22. Emily walks $\frac{4}{5}$ mile to school each day. How many miles will she walk in four days? Show your work, and write the product as a mixed number.</p> $\frac{4}{5} \times 4 = \frac{16}{5} = 3\frac{1}{5}$ <p style="text-align: right; color: red;">Answer: $3\frac{1}{5}$ miles (3 points, 1 pt work, 1 pt answer, 1 pt label)</p>								

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4.NF.4b	<p>23. Use the fraction strips to find the product.</p> <div style="display: flex; align-items: center; justify-content: center; margin: 10px 0;"> <table border="1" style="border-collapse: collapse; text-align: center; margin-right: 20px;"> <tr><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td></tr> </table> <div style="margin-right: 20px;">$5 \times \frac{2}{5} = \frac{10}{5}$</div> <div style="color: red; font-weight: bold;">or 2 (1 point)</div> </div> <table border="1" style="border-collapse: collapse; text-align: center; margin: 10px 0;"> <tr><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td></tr> <tr><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td></tr> <tr><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td></tr> <tr><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td></tr> </table>	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$	$\frac{1}{5}$
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4.NF.4c	<p>24. Write the product as a whole number or mixed number.</p> <div style="margin: 10px 0;"> $4 \times \frac{2}{5} = \underline{\hspace{2cm}}$ $\frac{2}{5} \times 4 = \frac{8}{5} = 1\frac{3}{5}$ </div> <div style="margin: 10px 0;"> $7 \times 1\frac{1}{4} = \underline{\hspace{2cm}}$ $7 \times 1\frac{1}{4} = 7 \times \frac{5}{4} = \frac{35}{4} = 8\frac{3}{4}$ </div> <p style="text-align: right; color: red; font-weight: bold;">(2 points)</p>																									
4.NF.4c	<p>25. At the grocery store, Kerry bought $1\frac{2}{3}$ pounds of apples. Tammy bought twice as many pounds of apples as Kerry. How many pounds of apples did Tammy buy? Draw a model to solve the problem.</p> <div style="text-align: center; margin: 10px 0;"> <table border="1" style="border-collapse: collapse; margin: 5px;"> <tr><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td></tr> </table> <table border="1" style="border-collapse: collapse; margin: 5px;"> <tr><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td><td>$\frac{1}{3}$</td></tr> </table> </div> <p style="text-align: center; color: red; font-weight: bold; margin: 10px 0;">Model Drawing Needed</p> <p style="text-align: center; color: red; font-weight: bold;">Answer: $3\frac{1}{3}$ pounds of apples</p> <p style="text-align: center; color: red; font-weight: bold;">(3 points, 1 point model, 1 point for answer, 1 point for label)</p>	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$													
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4.NF.3b

26. A recipe calls for $3\frac{1}{2}$ cups of nuts. John only has a $\frac{1}{2}$ cup measuring scoop. How many scoops does John need to measure out $3\frac{1}{2}$ cups of nuts? Show your work and explain your answer.

1		1		1		$\frac{1}{2}$
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$

John will need 7 scoops of nuts to equal $3\frac{1}{2}$ cups because....

(3 points: work, label and explanation)