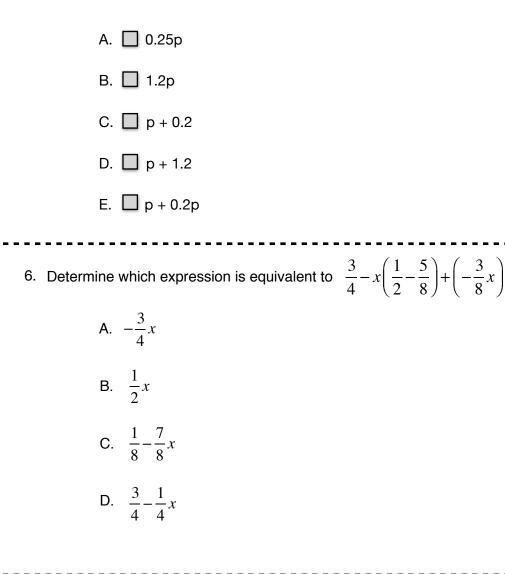
<b>Expressions &amp; Equations 7.EE.A.1-2</b> Use properties of operations to generate equivalent expressions.					
1. Which expressions are equivalent to $3\frac{1}{4} - \left(-\frac{5}{8}\right)?$	2. Which expressions are a factor of $-48xyz - 24xy + 40xyz$ ? Select <b>all</b> that apply.				
A. $3\frac{1}{4} - (\frac{5}{8})$ B. $3\frac{1}{4} + (\frac{5}{8})$ C. $3\frac{1}{4} + (-\frac{5}{8})$ D. $3\frac{1}{4} + (+\frac{5}{8})$ E. $-3\frac{1}{4} + (-\frac{5}{8})$	<ul> <li>A. 4</li> <li>B. 24</li> <li>C. 3x</li> <li>D. 8y</li> <li>E. 2xy</li> <li>F. 6xy</li> <li>G. xyz</li> </ul>				
<ul> <li>F3<sup>1</sup>/<sub>4</sub> + (+<sup>5</sup>/<sub>8</sub>)</li> <li>3. A garden is 15 feet long by 5 feet wide. The length and width of the garden will each be increased by the same number of feet. This expression represents the perimeter of the larger garden:</li> <li>(x + 15) + (x + 5) + (x + 15) + (x + 5)</li> </ul>					
Which expression is equivalent to the expression for the perimeter of the larger garden?					
Select <b>all</b> that apply. <b>A.</b> $4x + 40$					
<b>B.</b> 2(2 <i>x</i> + 20)					
<b>C.</b> $2(x + 15)(x + 5)$					
<b>D.</b> $4(x + 15)(x + 5)$					
<b>E.</b> $2(x + 15) + 2(x + 5)$					

4. Indicate whether each expression is equivalent to  $\frac{1}{2}x-1$ , equivalent to  $x-\frac{1}{2}$ , or not equivalent to  $\frac{1}{2}x-1$  or  $x-\frac{1}{2}$ .

	Equivalent to	Equivalent to	Not Equivalent to	
Expression	$\frac{1}{2}x-1$	$x-\frac{1}{2}$	$\frac{1}{2}x - 1$ or $x - \frac{1}{2}$	
$\frac{2}{3}\left(\frac{3}{4}x - \frac{3}{2}\right)$				
$(2x+1) - \left(x + \frac{3}{2}\right)$				

5. Sharon's dog weighs *p* pounds. Jen's dog weighs 20% more than Sharon's dog. Which expressions represent the weight, in pounds, of Jen's dog? Select each correct answer.



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<ol> <li>Rodney decides to pay a \$200 fee in 3 payments. The first payment is 10% of the original fee. The second payment is 25% of the original fee. Which expressions represent the amount of money for the third payment? Select all that apply.</li> </ol>					
200 - 0.25(200)		200 - 0.35(200)			
200 - 0.65(200)		200 - 0.75(200)			
0.25(2	200)	0.35(200)			
☐ 0.65(200)		0.75(200)			
8. Two students de	termined the value of this expre-	ssion.			
	-2.5(1.4 + 3.1)	+ 6.9(-4.3)			
These are the ste	eps each student used:				
	Student P	Student Q			
	Step 1: -3.5 + 7.75 + 6.9(-4.3)	Step 1: −3.5 – 7.75 + 6.9(−4.3)			
	Step 2: -3.5 + 7.75 - 29.67	Step 2: -3.5 - 7.75 - 29.67			
	Step 3: 7.75 – 3.5 – 29.67	Step 3: -(3.5 – 7.75 – 29.67)			
	Step 4: -25.42	Step 4: -(-33.92)			
		Step 5: 33.92			
<ul> <li>Describe any errors made by Student P.</li> <li>Describe any errors made by Student Q.</li> <li>Show a complete set of correct steps to determine the value of the expression.</li> </ul>					
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