Teacher Created Number Line Problems

**5th grade**

1. Using the number lines below to prove that two fractions are equivalent.

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1. Use a number line to represent 351x4
2. Show /solve the following using number lines:

25% of 100, 25% of 90, and 25% of 91

Explain a "real world" situation where you could apply this.

Then solve an alternate way.

Explain which method is "better" and what criteria you used to decide "better".

1. Using an open ended number line to show the ratio of 5 dogs to 10 cats.

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1. Show all possible combinations of 2 3/8 and 1 1/8.  Remember to use improper fractions. Simplify your answer and show all your work.  No credit given for no work.

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1. Using the number line, find a fraction less than 0.6.

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1. Find and label13/5 on the number line.

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1. Determine the fraction indicated by the arrow on the number line below. Support your number with a mathematically convincing argument.

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1. Prove that 3/5 is equivalent to 6/10 using the number lines below.

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1. Using the blank number line, solve the equation 3/5 plus 4/5. Support your answer with a mathematically convincing argument.

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1. Caroline bought 2 $\frac{1}{3}$ pounds of turkey on Friday and then 2 $\frac{1}{3}$ pounds of turkey on Saturday.   She continues buying the same amount each day.  Use a number line to find how many pounds of turkey she will have bought by the end of her day on Thursday.  Justify your solution with a number line and words.

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1. Use the open number line to find the solution of 10.5 - 8.7 in at least three different ways.

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1. 1/3 of the class loves chocolate ice cream.  1/4 of those chocolate ice cream lovers like colored sprinkles. What fraction of the class likes chocolate ice cream with colored sprinkles the best?

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1. Label the points on a number line from 3 to 7. Find the point 4 1/2.

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1. Show that one third is greater than one fourth on an open number line.

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