Name: _____ **Homework #4** Score = _____/20

Directions: Each day Thursday through Wednesday (not including weekends), there are 1-4 questions to complete for homework. You may complete the work in the space provided. If you choose to work on a separate sheet of paper, record your answer in the appropriate box, and staple your separate sheet of paper to this one. ***To earn full credit, you must show some work when solving equations.***

**IMPORTANT: Go to this link and insert your answers

Thursday

Mr. Smith has a maximum of $50 to spend at a museum. A ticket to the museum costs $7. He can spend *p* dollars to buy other things at the museum.
Which inequality can be used to find the possible values for *p*?

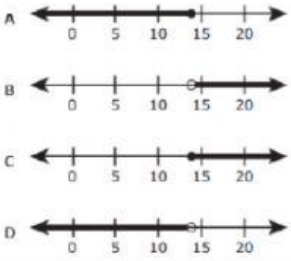
F $p - 7 > 50$

G $p - 7 < 50$

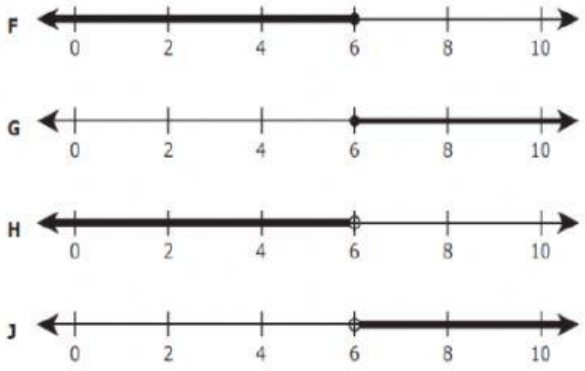
H $p + 7 \geq 50$

J $p + 7 \leq 50$

Alma reads 2 books each week. Which number line best represents the number of weeks it will take her to read at least 28 books?

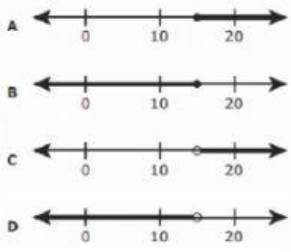


Which number line represents the solution to $5x < 30$?



Friday

Aiko is selling books for $12 each. She wants to make more than $180 in book sales. The inequality $12b > 180$ can be used to determine the number of books, b, she must sell in order to meet her goal. Which number line best represents the solution to the inequality?



Which situation could be represented by the equation $10.75=5.5n$?

F Ricardo ran 5.5 miles. He ran each mile in 10.75 minutes. What is n, the total number of minutes it took Ricardo to run 5.5 miles?

G Ricardo ran a total of 10.75 miles on Monday. He ran 5.5 miles in the morning and the rest of the miles in the evening. What is n, the number of miles Ricardo ran in the evening?

H Ricardo ran a total of 10.75 miles. He ran 5.5 miles each hour. What is n, the number of hours Ricardo ran?

J Ricardo ran 10.75 hours one week and 5.5 hours the next week. What is n, the total number of hours Ricardo ran during these weeks?

Jamal wrote the inequality $\frac{x}{16} \leq 6$. Which situation is best represented by this inequality?

A Jamal divided x pieces of paper among 16 students, and each student received fewer than 6 pieces of paper.

B Jamal placed x cards in 16 stacks, and there were no more than 6 cards in each stack.

C Jamal separated x shirts into 6 stacks, and each stack had at least 16 shirts.

D Jamal shared 16 markers with x classmates, and each classmate had fewer than 6 markers.

Which situation **cannot** be represented by the equation $x + 10 = 45$?

A Marissa spent $45 on a hat and a shirt. The hat cost $10. What is x, the cost of the shirt in dollars?

B Nicholas rode his bike 45 miles last week. He rode 10 miles on Tuesday and the rest of the miles on Wednesday. What is x, the number of miles Nicholas rode his bike on Wednesday?

C Two players scored a total of 45 points in a game. One player scored 10 points. What is x, the number of points scored by the other player?

D There are 45 students in a group. There are also 10 adults in the group. What is x, the total number of students and adults in the group?

LIVEWORKSHEETS

Monday	The perimeter of a triangle is 104 units. The combined length of two of the sides of the triangle is 64 units. What is the length of the third side of the triangle in units? **A** 168 units **B** 6,656 units **C** 40 units **D** 1.625 units	Ms. Gallegos burns 236 calories riding her bike each hour. She wants to burn more than 590 calories riding her bike at the same rate. Which inequality represents all possible values for t, the number of hours Ms. Gallegos must ride her bike to burn more than 590 calories? **A** $t > 2.5$ **B** $t < 2.5$ **C** $t > 0.4$ **D** $t < 0.4$	The area of a rectangle is 45.5 square inches. The base of the rectangle is 7 inches. What is the height of the rectangle in inches? **A** 318.5 in. **B** 6.5 in. **C** 15.75 in. **D** 38.5 in.	$t + 250 \leq 600$ Which inequality represents all possible values of t? **A** $t \geq 350$ **B** $t \leq 850$ **C** $t \leq 350$ **D** $t \geq 850$
Tuesday	The area of a rectangle shown is 375 square centimeters. The base is 25 cm.  What is h, the height of the rectangle in centimeters? **F** 350 cm **G** 7.5 cm **H** 15 cm **J** 162.5 cm	What value of x makes this equation true? $-90 = -100 + x$ **A** −10 **B** 10 **C** −190 **D** 190	Saritha will construct a rectangle that has a height of 4 units and an area of up to 48 square units. Which inequality represents all the possible lengths in units of the bases, b, that Saritha can use to construct this rectangle? **A** $b \leq 44$ **B** $b \geq 52$ **C** $b \leq 12$ **D** $b \geq 192$	$n + 3 \geq 10$ Which inequality represents a solution set for this situation? **F** $n \leq 13$ **G** $n \geq 13$ **H** $n \leq 7$ **J** $n \geq 7$
Wednesday	The sum of two payments is $183.60. One payment is $54. What is p, the amount of the second payment? **A** p = $129.60 **B** p = $3.40 **C** p = $9,914.40 **D** p = $237.60	Which inequality is true if p = 3.4 ? **F** $3p < 10.2$ **G** $13.6 \leq 3.9p$ **H** $5p > 17.1$ **J** $8.5 \geq 2.5p$	Which equation has a solution of k = 6.5 ? **F** $-3k = 19.5$ **G** $-1 + k = 7.5$ **H** $-7k = -45.5$ **J** $-2 + k = -8.5$	Which equation has a solution of $\frac{2}{3}$ for n? **A** $n - 1 = \frac{1}{3}$ **B** $16n = 24$ **C** $15n = 10$

LIVEWORKSHEETS

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