

A

$$X \leq 166$$

Mr. Schmidt is studying for his firefighter exam. He determines that he must study a minimum of 60 hours. He decides to spread his study hours out evenly over eight weeks. How many hours will Mr. Schmidt need to study each week?

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B

$$X > 32.2$$

Jamie purchases gifts for three friends. She chooses a book for \$12.80 and then finds two identical necklaces. Her budget is \$48.00 before tax. What is the maximum she can spend on each necklace?

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C

$$X \leq 17.6$$

A group of students would like to publish a school magazine. In order to publish the magazine, they will be charged a set-up fee of \$90.00 plus \$1.25 per magazine copy. The group has raised \$260.00. How many magazines can the students publish?

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D

$$X \geq 7.5$$

The school PTA is sponsoring a dance. They decide to price student tickets at \$6.00. It will cost the PTA \$250.00 to put on the dance. How many tickets will the PTA need to sell in order to make a profit?

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E

$$X \leq 9$$

A conference is ordering gift bags for each attendee. The cost will be \$14.50 per bag plus a \$94 set-up fee. If the total exceeds \$500 there is a discount. How many gift bags must the conference order to receive the discount?

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F

$$X \leq 20$$

A wedding venue holds no more than 485 guests. If 319 people have said they are attending, how many more people does the venue have room for?

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G

$$X \geq 46.6$$

Monica is paid \$11.50 per hour in addition to a \$70.00 fuel stipend. This week she would like to earn more than \$440.00. How many hours must Monica work this week?

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H

$$X > 41.\overline{6}$$

Mick has a savings account with \$800.00 in it. Every month, he withdraws \$75.00 to pay for his cell phone. What is the maximum number of months that Mick can withdraw the money without allowing his savings account to drop below \$125.00?

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I

$$X \leq 136$$

A taxicab charges \$3.00 per person plus \$1.25 per mile. What is the greatest distance one passenger could travel with a budget of \$28.00?

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J

$$X > 28$$

Each snack at the concession stand is priced at \$4.00. All of the snacks cost a total of \$86.56. How many snacks will need to be sold in order to make a minimum profit of \$100.00?

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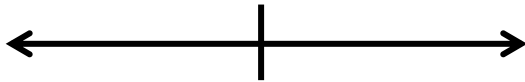
SOLVING INEQUALITIES SCAVENGER HUNT

Show all your work in the appropriate box below.

A

Write inequality: _____

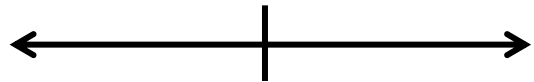
Solution: _____



B

Write inequality: _____

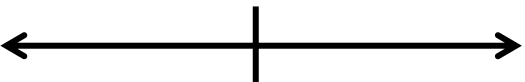
Solution: _____



C

Write inequality: _____

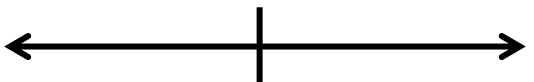
Solution: _____



D

Write inequality: _____

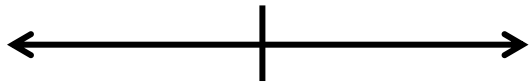
Solution: _____



E

Write inequality: _____

Solution: _____

**F**

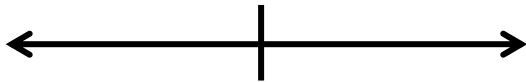
Write inequality: _____

Solution: _____

**G**

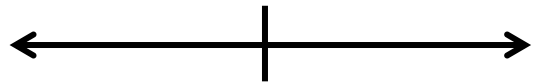
Write inequality: _____

Solution: _____

**H**

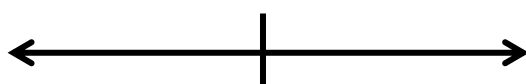
Write inequality: _____

Solution: _____

**I**

Write inequality: _____

Solution: _____

**J**

Write inequality: _____

Solution: _____



INEQUALITIES SCAVENGER HUNT

Show all your work in the appropriate box below.

A

Write inequality: $8x \geq 60$ _____

Solution: $x \geq 7.5$ _____



B

Write inequality: $12.80 + 2x \leq 48.00$ _____

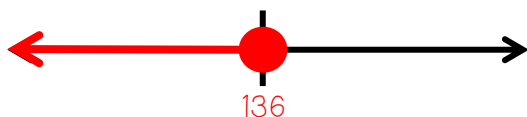
Solution: $x \leq 17.6$ _____



C

Write inequality: $1.25x + 90 \leq 260$ _____

Solution: $x \leq 136$ _____

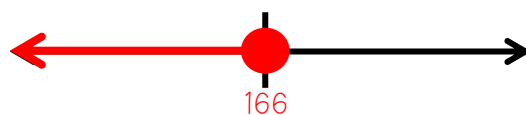
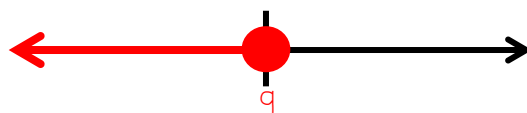
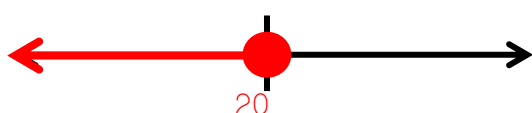


D

Write inequality: $6x > 250$ _____

Solution: $x > 41.\bar{6}$ _____



EWrite inequality: $14.50x + 94 > 500$ Solution: $x > 28$ **F**Write inequality: $319 + x \leq 485$ Solution: $x \leq 166$ **G**Write inequality: $11.50x + 70 > 440$ Solution: $x > 32.2$ **H**Write inequality: $800 - 75x \geq 125$ Solution: $x \leq 9$ **I**Write inequality: $3.00 + 1.25x \leq 28$ Solution: $x \leq 20$ **J**Write inequality: $4x - 86.56 \geq 100$ Solution: $x \geq 46.6$ 