Picture overlays

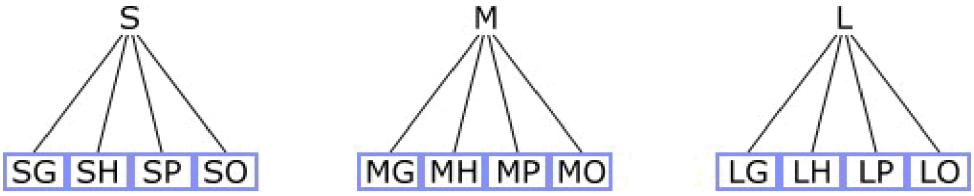
Name: _____ **Date:** _____

1. Pizza is sold at a restaurant in 3 sizes: small (S), medium (M), and large (L). Customers can choose from 4 toppings to be used on a 1-topping pizza. The 4 toppings are green peppers (G), ham (H), pepperoni (P), and olives (0).

   A customer plans to order a large or medium 1-topping pizza with any topping *except* pepperoni (P).

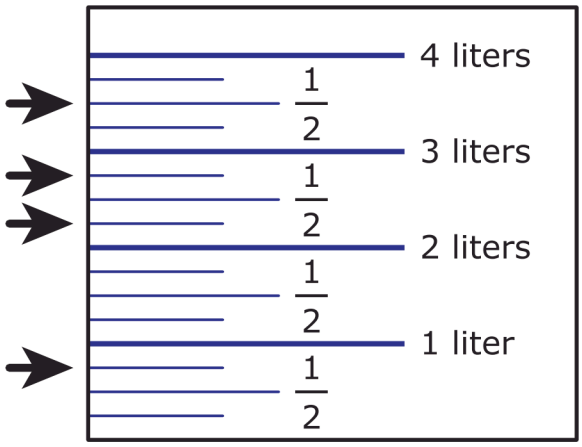
   This sample space shows all the types of 1-topping pizzas. Which outcomes in this sample space show the types of pizza the customer may order?

   Select *all* correct outcomes.

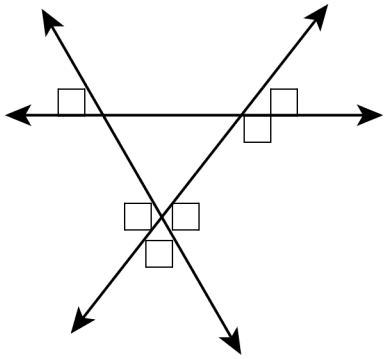


2. Gwen pours about 3 liters of water into a container.

   Select the arrow that shows about how much water Gwen poured into the container.



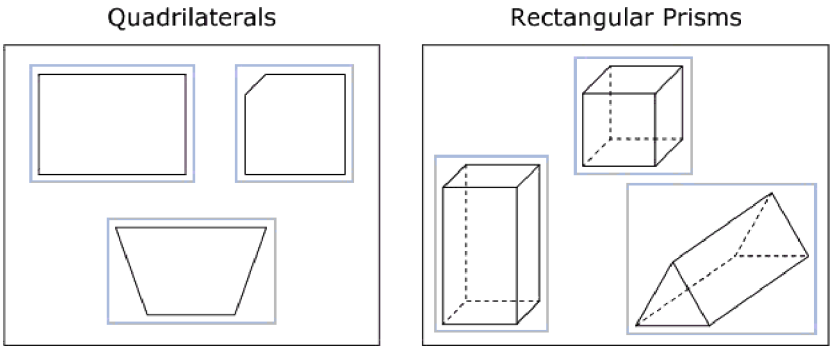
3. Select the *two* angles in this diagram that represent a pair of vertical angles.



4. Camille sorted shapes into two labeled groups. She sorted two shapes incorrectly.

Which shapes did Camille sort incorrectly?

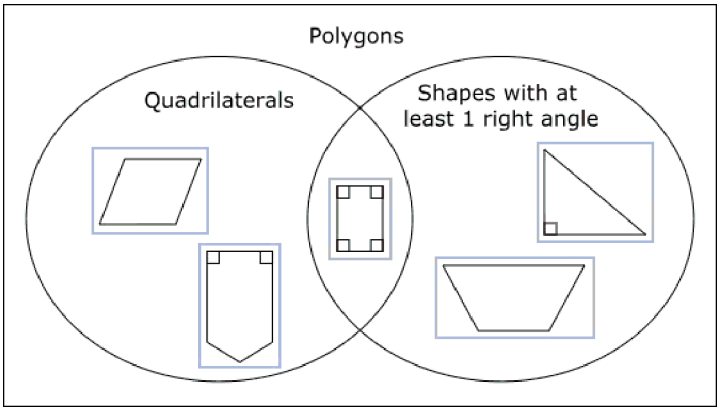
Select *two* correct answers.



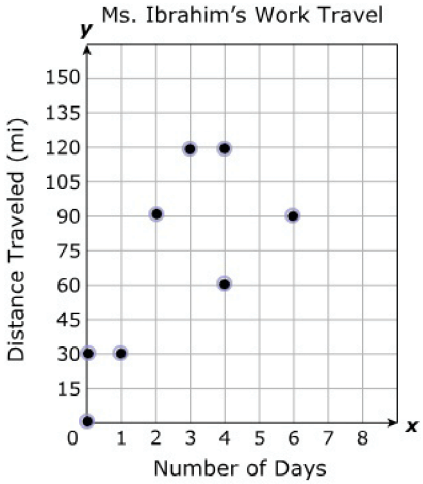
5. The diagram shows how Stella organized some shapes in a Venn diagram.

Which shapes are *not* placed correctly?

Select *two* correct answers.

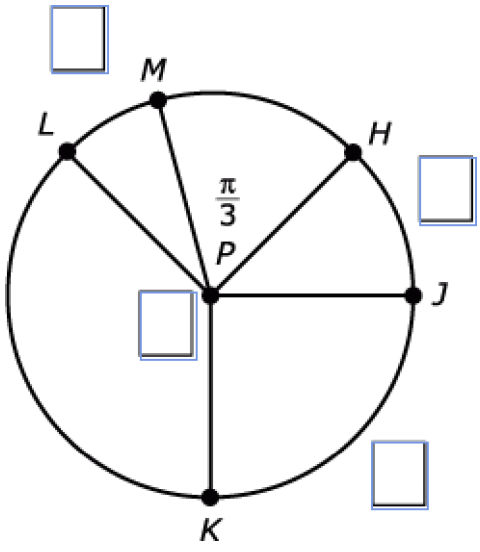


6. Ms. Ibrahim traveled a total of 150 miles for work in 5 days. She traveled the same distance for work each day. Which three points lie on the line that represents the total distance in miles, y, she traveled for work in x days? Select *three* correct answers.



7. A unit circle with center P is shown. In circle P, $\angle JPK$ is a right angle, $m\angle HPJ = \frac{1}{2}m\angle JPK$, and $m\angle LPK = m\angle HPJ + m\angle JPK$. Determine the values of $m\angle LPK$ and the lengths of $\overset{\frown}{LM}$, $\overset{\frown}{HJ}$, and $\overset{\frown}{JK}$.

Drag and drop each radian measure into the diagram.



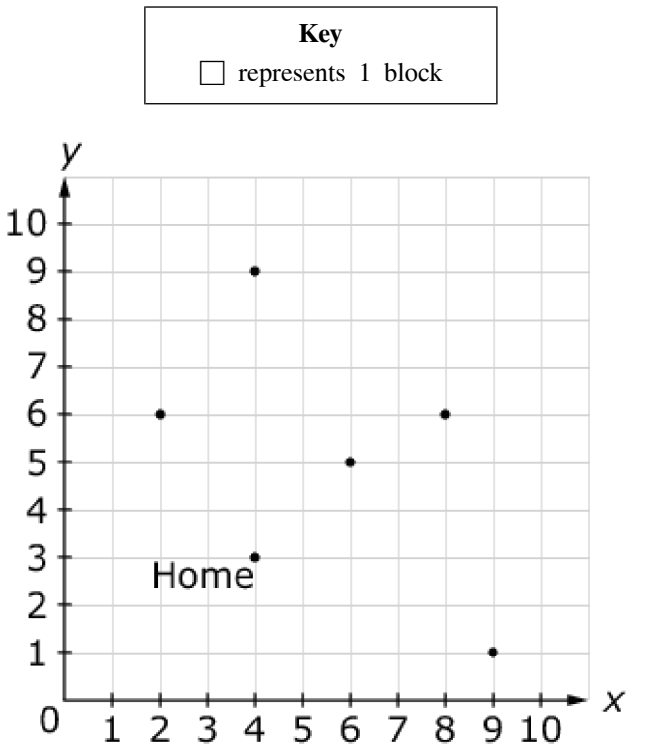
$\frac{\pi}{6}$ $\frac{\pi}{4}$ $\frac{\pi}{3}$ $\frac{\pi}{2}$ $\frac{2\pi}{3}$ $\frac{3\pi}{4}$ $\frac{5\pi}{6}$

8. The location of Mary's home is plotted on the coordinate grid.

Read these clues about other places in Mary's town.

- The bank is located at (9, 1).
- The library is 6 blocks from the store.
- The store is 3 blocks from the park.
- The hospital is 5 blocks from the library.
- The park is 4 blocks from Mary's home.

Drag the names of each place to the correct location on the coordinate grid.



Bank | Hospital | Library | Park | Store

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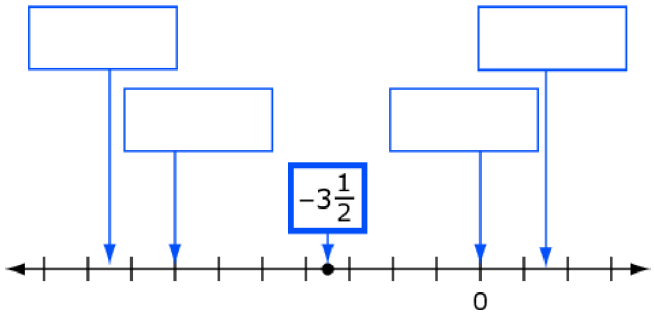
9. The point on the number line shows the location of $-3\frac{1}{2}$.

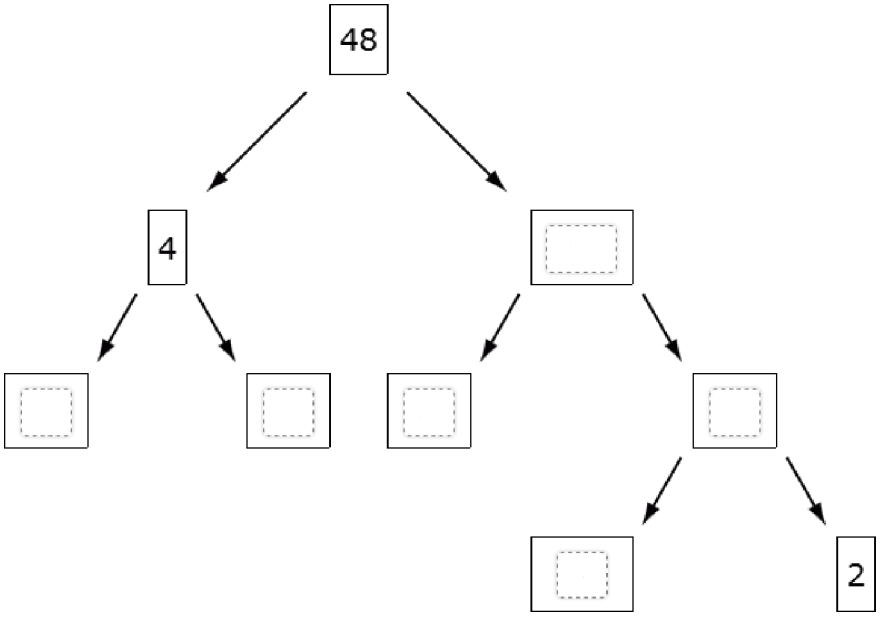
Move each expression into a box to show its correct location on the number line.



$-3\frac{1}{2} - 3\frac{1}{2}$ $-3\frac{1}{2} - (-5)$ $-3\frac{1}{2} + 3\frac{1}{2}$ $-3\frac{1}{2} + (-5)$

10. Joanna decomposes 48 into its prime factors using a factor tree, as shown.

Drag numbers to the empty boxes to fill in the missing numbers in Joanna's factor tree.



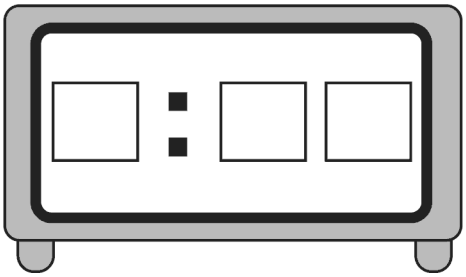
2 3 4 6 8 12 16 24

Picture overlays

11. A student practices the piano for 35 minutes. He starts practice at 6:15.

What time will he end practice?

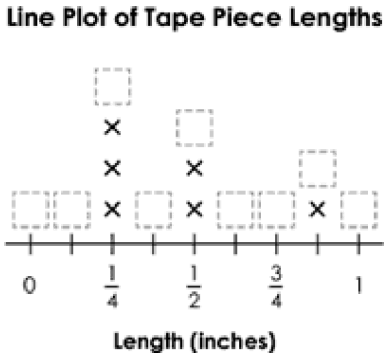
Drag and drop a number from the list in each blank to show the correct end time on the clock.



0 1 2 3 4 5 6 7 8 9

12. A student has a piece of tape that is 3 inches long. She cuts the tape into 7 pieces. Then, she records the length of 6 of the pieces in a line plot, as shown.

Move the X to the line plot to show where the length of the seventh piece of tape should be recorded.

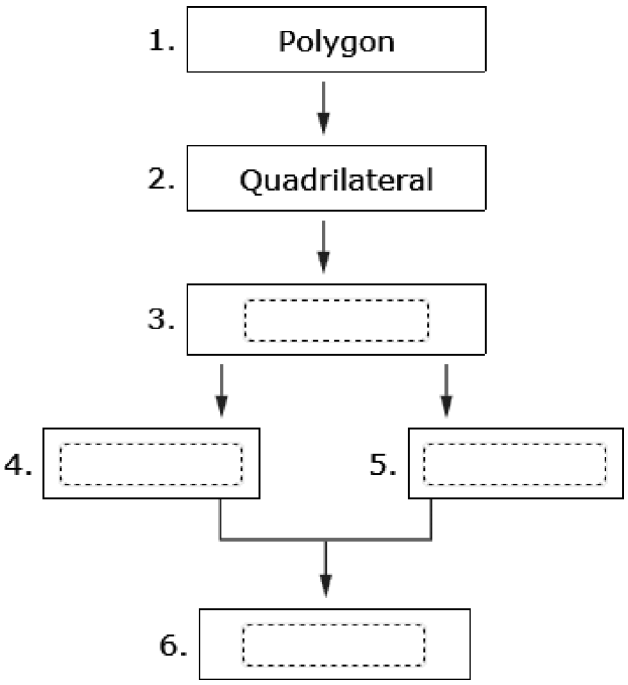


X

13. A partially complete chart shows the hierarchy of a set of polygons.

Move a term to each blank box to complete the chart.

Kite | Parallelogram | Rectangle | Rhombus | Square



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