

CANDY PATTERNS

In the opera *Hansel and Gretel*, the characters of Hansel and Gretel find themselves trapped in a Witch’s house made of candy! Assemble the patterns below using these clues to help them escape. And remember, no candy can repeat in the pattern even if the pattern uses the same two clues.

Column 1: Fruit Shaped, Stripes, Wrapped, On a Stick, Animal

Column 2: Wrapped, Stripes, Animal, Wrapped, On a Stick

Column 3: Animal, Wrapped, Animal, Wrapped, Stripes

1

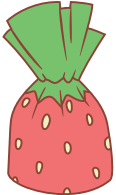
2

3

Red Fish
Pescado Rojo



Strawberry
Bon Bon
Dulce de fresa



Candy Cane
Bastón de caramelo



Chocolate
Chocolate

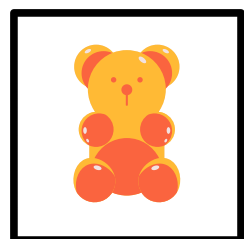
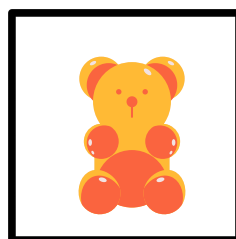
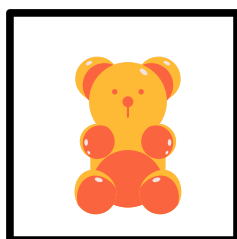
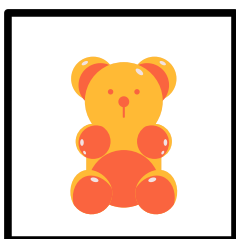
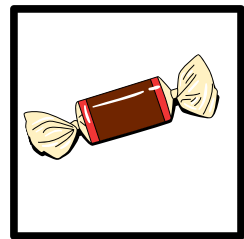
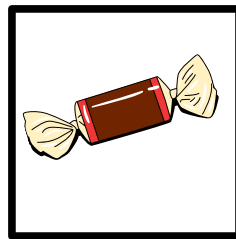
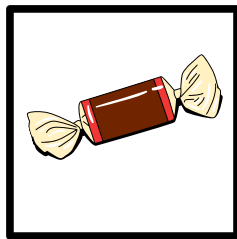
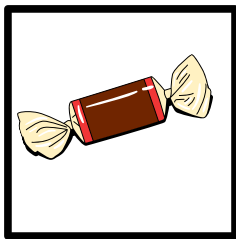
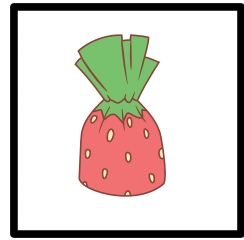
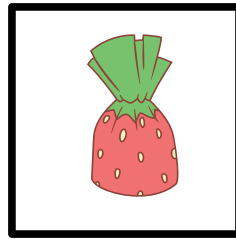
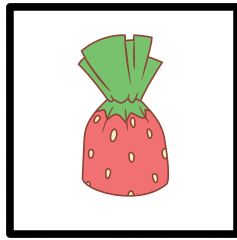
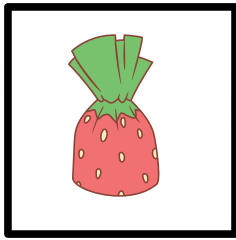
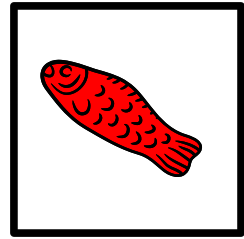
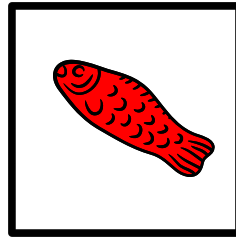
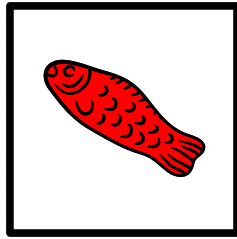
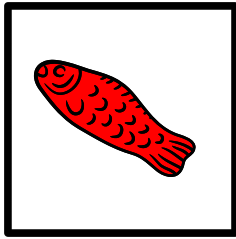


Lollipop
La piruleta



Gummy Bear
Osito de goma

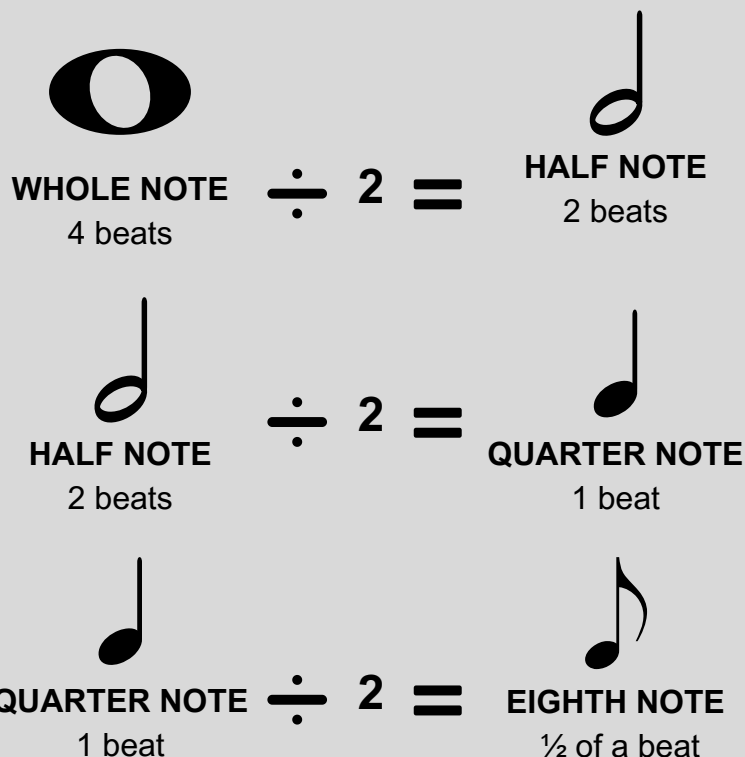




THE MUSIC OF MATH



Did you know music is a version of math?
Every note an orchestra plays is a fraction of a beat. Check it out!



Let's figure out how many beats are in each song from *Hansel and Gretel*. Here's an example:

Gretel sings: A lit- tle man stands still and si- lent in the for- est.

$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 1 $\frac{1}{2}$ 1 1 $\frac{1}{2}$ $\frac{1}{2}$ 1 1

How many beats total does Gretel sing?: 9

Heads up! Even if the notes are on different lines or are upside down, their value doesn't change!

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How many beats total does Gretel sing?: 9

THE MUSIC OF MATH



WHOLE NOTE
4 beats

$$\div 2 =$$

HALF NOTE
_____ beats

$$\div 2 =$$

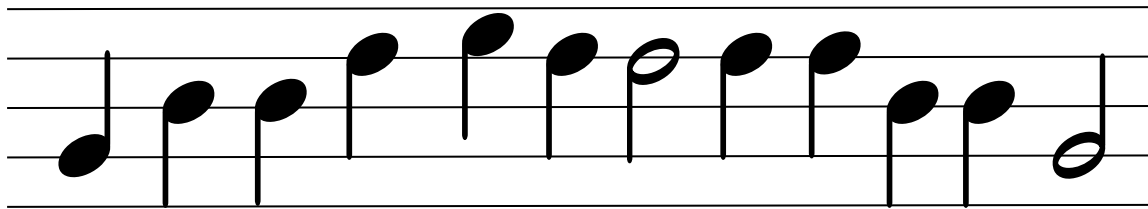
QUARTER NOTE
_____ beat

÷ 2 =

EIGHTH NOTE

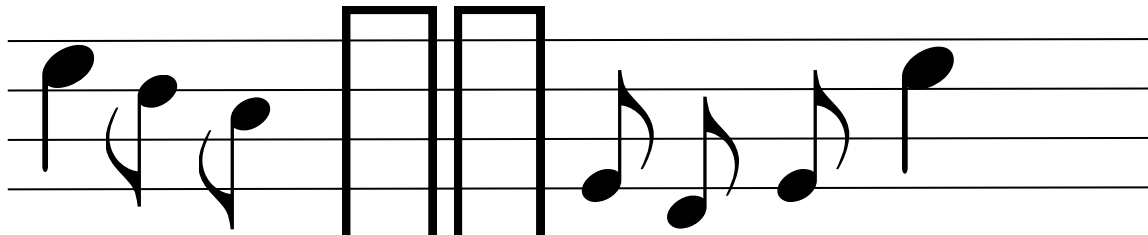
_____ of a beat

When Hansel and Gretel start exploring the forest, the orchestra plays this music:



[illegible]

The children come across a house made of gingerbread and candy and decide to have a taste: (For this one, you have to write some notes!)

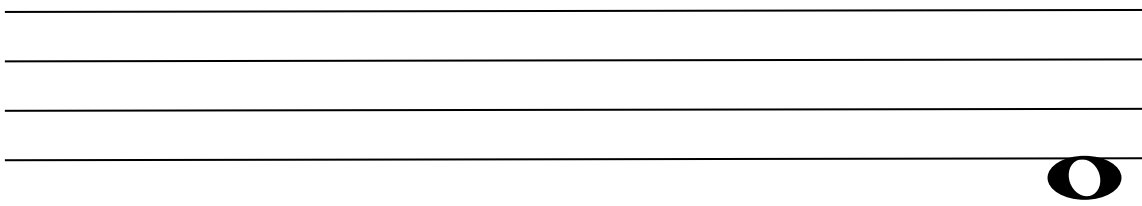


Let's get a lit - tle crunch from the house!

 + + || $\frac{1}{2}$ || $\frac{1}{2}$ || + + + + =

After being captured by a Witch, Hansel recites a spell to break free!

(Hint: Take a look at the total and build the song so the number of beats is correct. And be creative with your note placement!)



Ho- cus Po- cus Hol- der- busch! Ho- cus Po- cus Hol- der- busch!

$$+ + + \frac{1}{2} + + + + + 2 + + = 18$$

HANSEL AND GRETEL IN THE WOODS

Hansel and Gretel and lost in the woods! Using the map below, calculate the distance they have to travel to get home and the distance they have to travel to get to the Witch's Candy House.

The distance between each bread crumb is 1 yard



| - 1 y - |



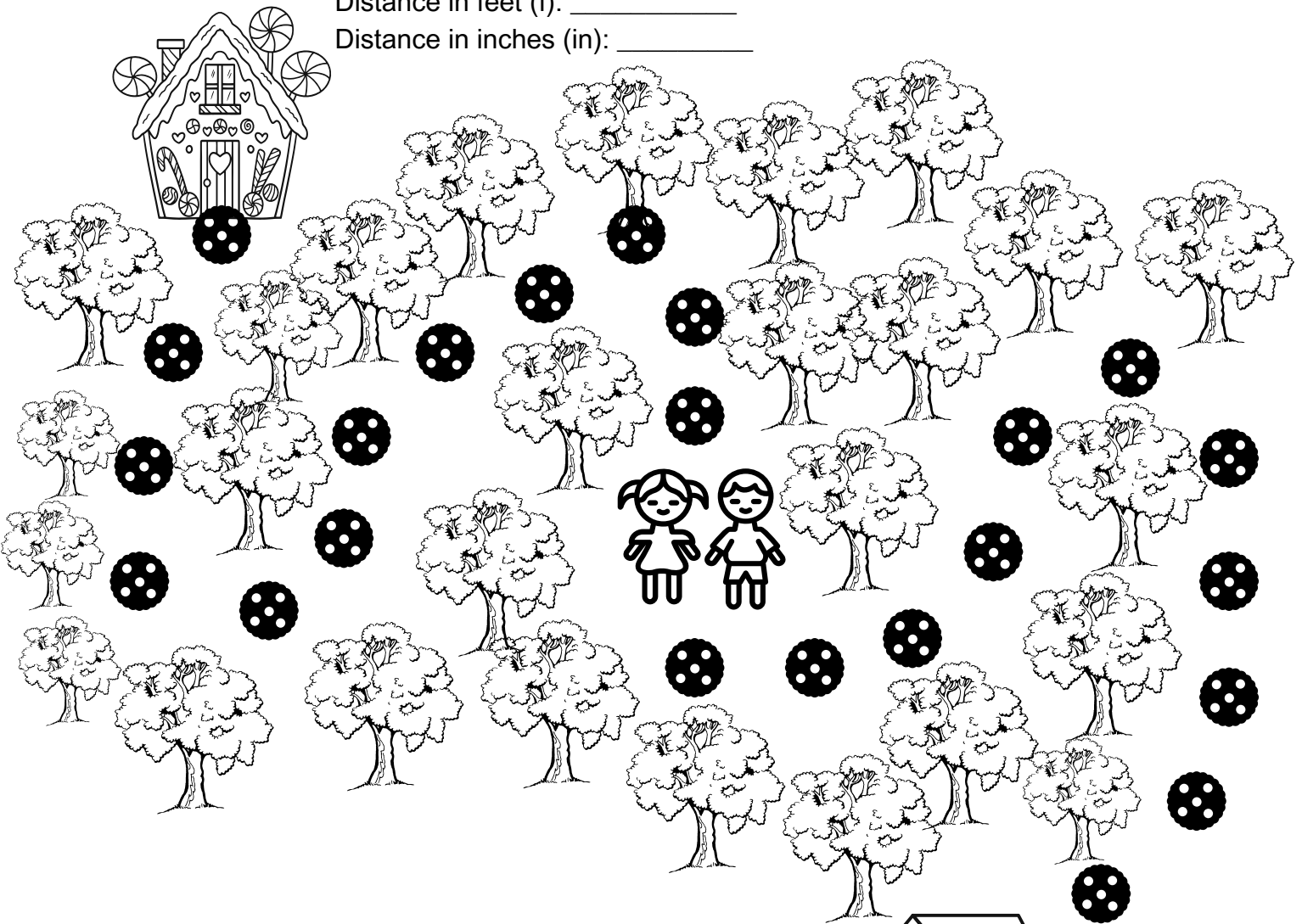
To convert yards to feet, divide by 3

To convert feet to inches, multiply by 12

Distance in yards (y): _____

Distance in feet (f): _____

Distance in inches (in): _____



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Distance in feet (f): _____

Distance in inches (in): _____



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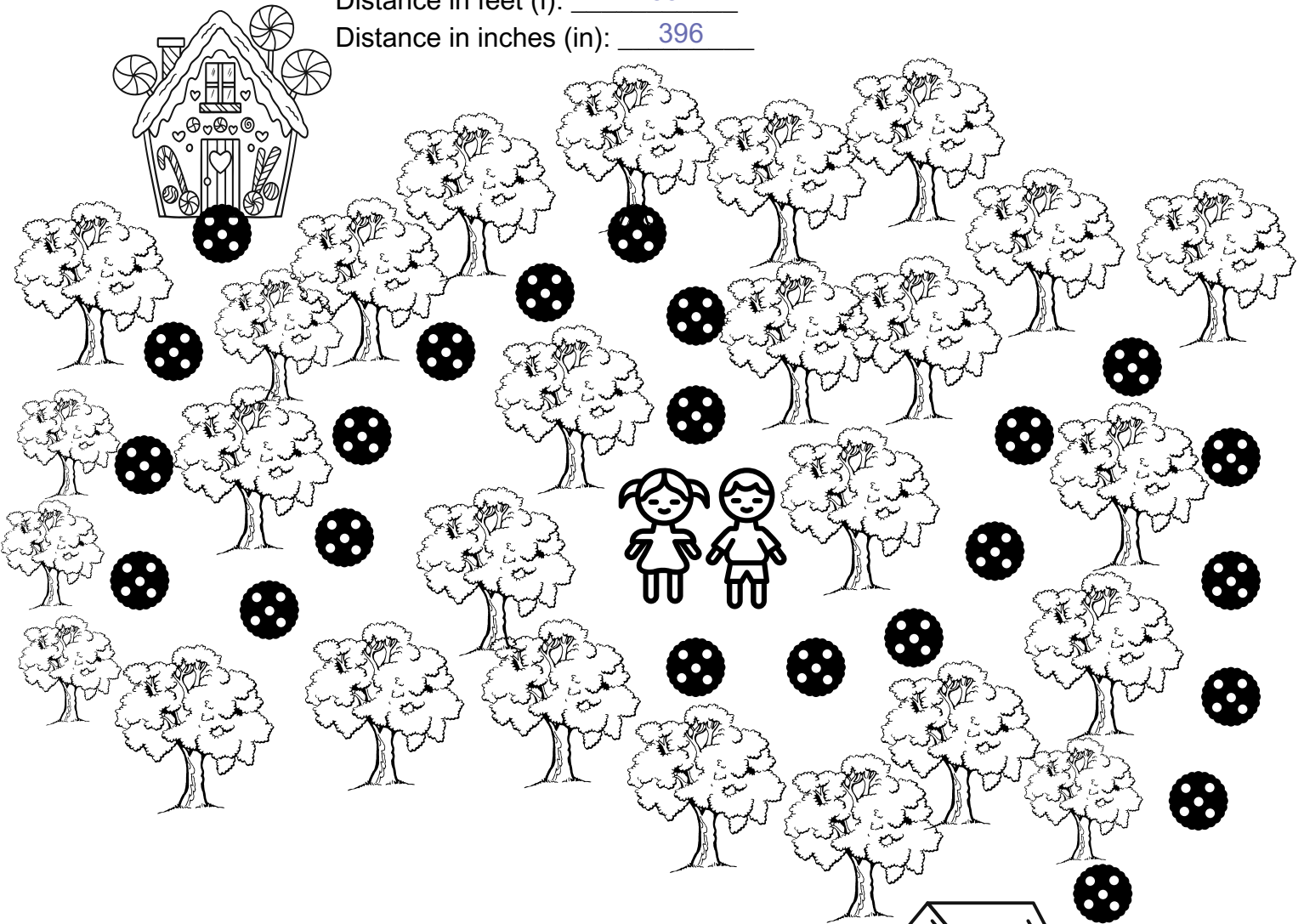
| - 1 y - |



To convert yards to feet, divide by 3

To convert feet to inches, multiply by 12

Distance in yards (y): 11
Distance in feet (f): 33
Distance in inches (in): 396



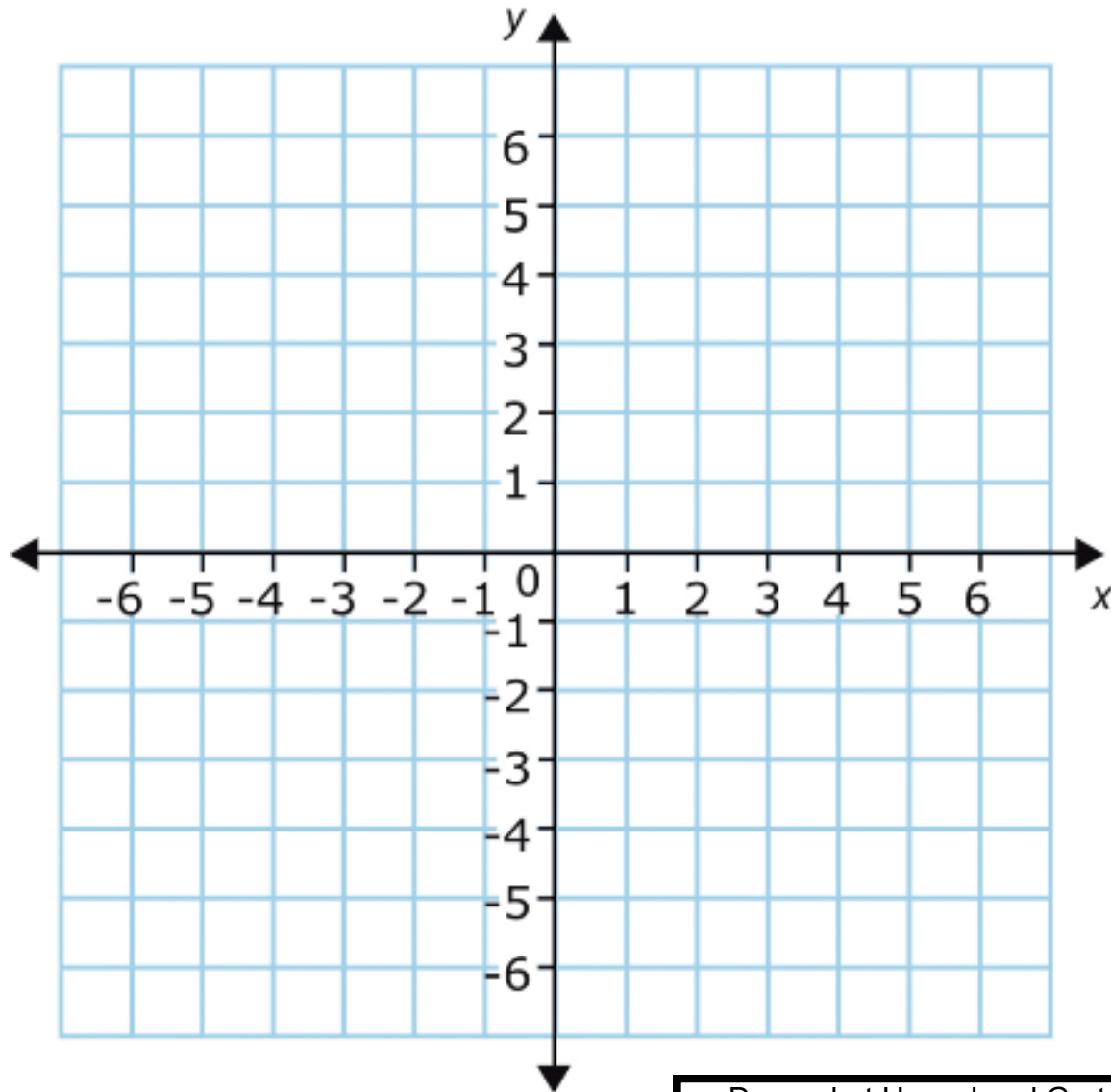
Distance in yards (y): 10
Distance in feet (f): 30
Distance in inches (in): 360



HELP HANSEL AND GRETEL ESCAPE!

In the story of *Hansel and Gretel*, the evil Witch punishes Hansel and Gretel for eating her candy house. As part of his punishment, the Witch locks Hansel and Gretel behind some bars until she is ready to deal with them.

Plot the coordinates below then connect the dots to give Hansel and Gretel what they need to escape!



Line 1: $(-6,5)$ to $(-6,-4)$

Line 2: $(-6,0)$ to $(-4,5)$

Line 3: $(-6,0)$ to $(-4,-4)$

Line 4: $(-2,5)$ to $(-2,-4)$

Line 5: $(-2,5)$ to $(1,5)$

Line 6: $(-2,1)$ to $(0,1)$

Line 7: $(-2,-4)$ to $(1,-4)$

Line 8: $(3,5)$ to $(5,3)$

Line 9: $(5,3)$ to $(7,5)$

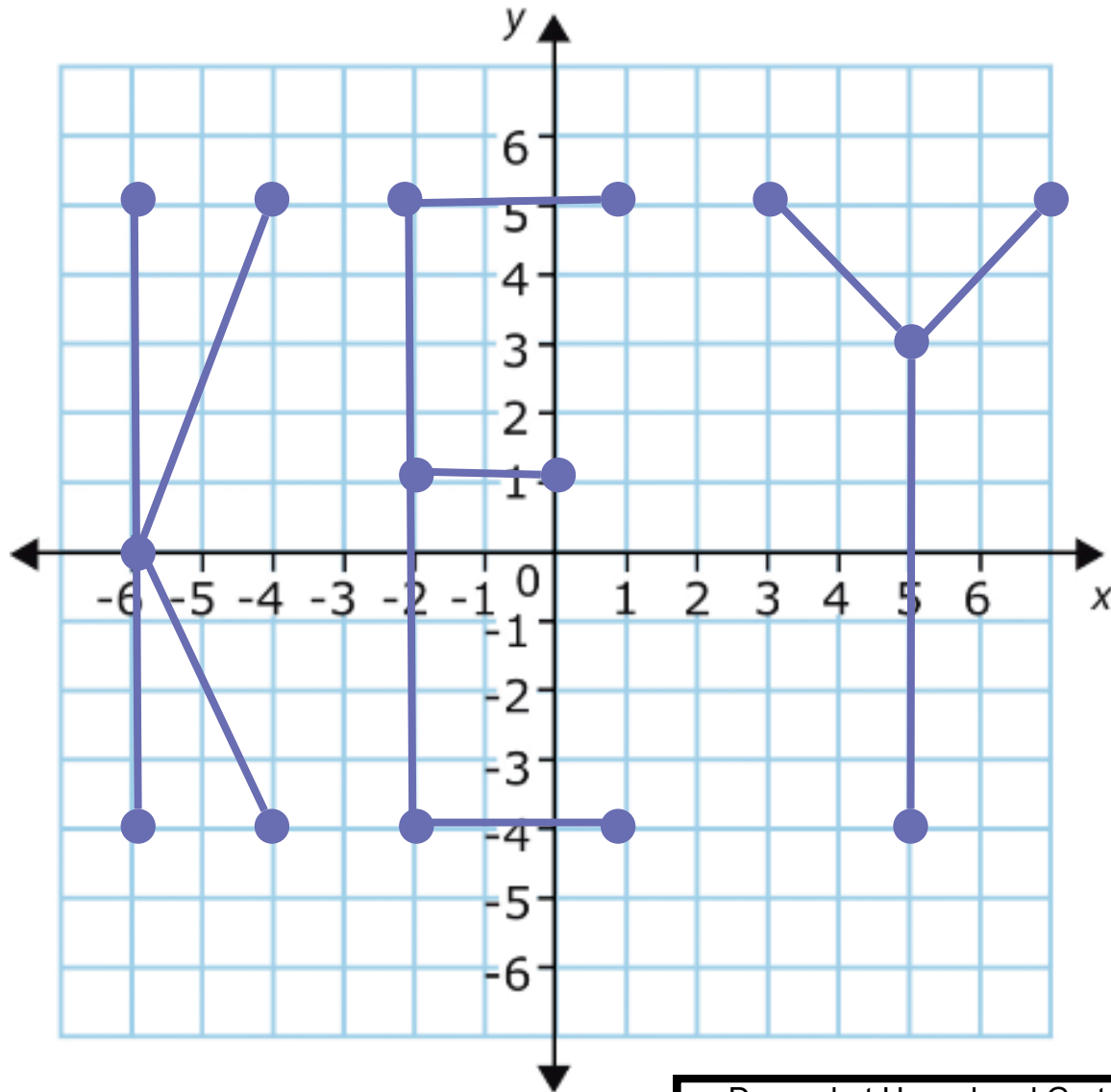
Line 10: $(5,3)$ to $(5,-4)$

Draw what Hansel and Gretel
need to escape!

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Line 5: $(-2, 5)$ to $(1, 5)$
Line 6: $(-2, 1)$ to $(0, 1)$
Line 7: $(-2, -4)$ to $(1, -4)$

Line 8: $(3, 5)$ to $(5, 3)$
Line 9: $(5, 3)$ to $(7, 5)$
Line 10: $(5, 3)$ to $(5, -4)$

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