



Speak AgentSM

We speak the language of content.SM



REAL-WORLD MATH

Coordinate Planes



Psst! See this strategy in action here:

speakagent.com/strategies

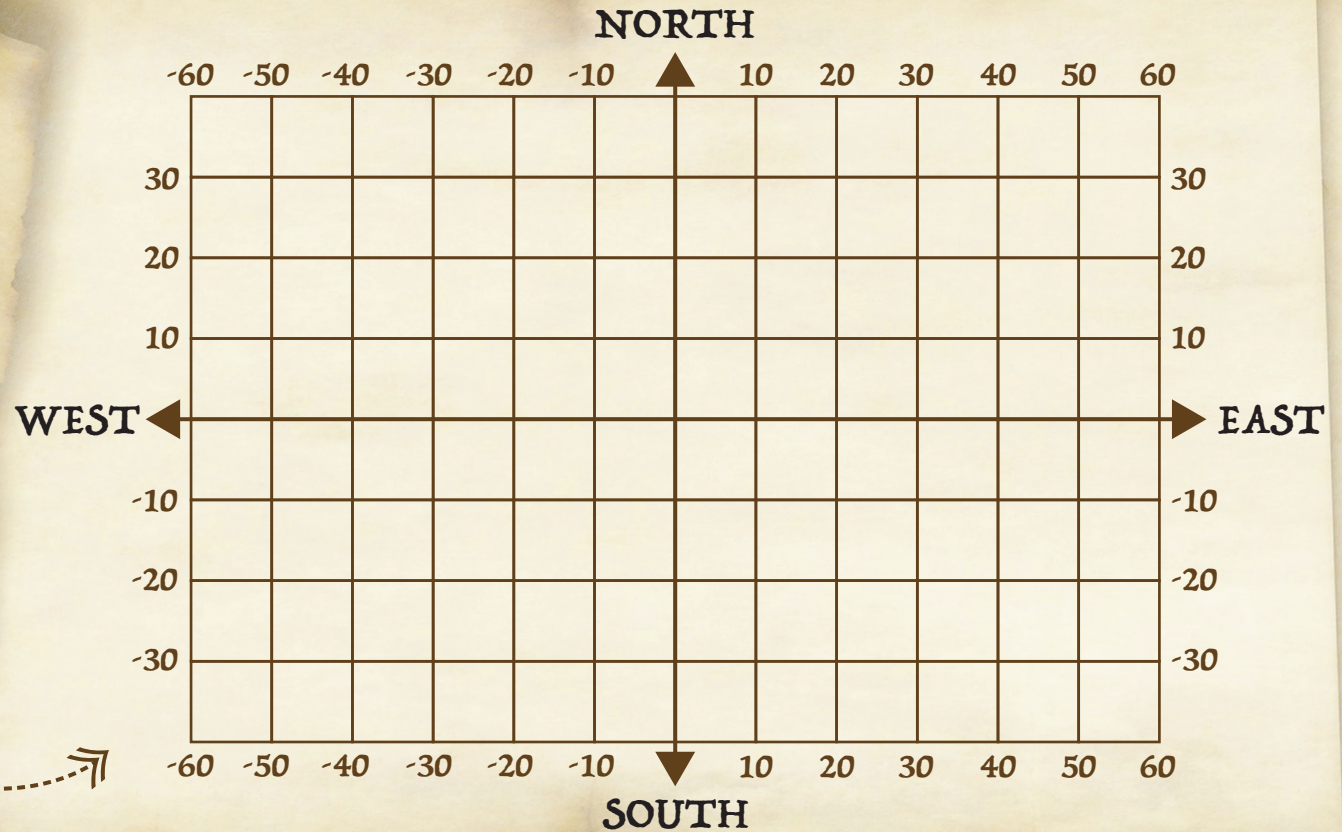
TREASURE MAP OF FASIL GHEBBI ፋሲል ገበባ

MATH
6



Emperor Fasilides has hidden his treasure deep in the fortress city of Fasil Ghebbi.

Can you find it?



LANDMARKS

Plot each ordered pair on the treasure map.



Great Stairs
(10, -20)



Palace
(-50, -20)




Royal Library
(40, -30)



High Tower
(?, ?)

SCALE የከርታ ሚዛን

 = 10 pics*

* Pics are units of measurement (.69m) used in ancient Ethiopia, where Fasil Ghebbi is located.

TREASURE MAP OF FASIL GHEBBI – Instructions

MATH
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LANDMARKS

- ▶ Plot each ordered pair on the treasure map.



Great Stairs
(10, -20)



Palace
(-50, -20)



Royal Library
(40, -30)



High Tower
(?, ?)

2

ROYAL CHRONICLES

- ▶ Read to find the location of the treasure.



First, I counted the distance $|d|$ of pics from the **Great Stairs** to the **Palace**.

Then I counted the same distance $|d|$ of pics north from the **Royal Library**.

That is where I built the **High Tower**. I buried my treasure there.

- Emperor

Fasilides



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CLAIM YOUR TREASURE

- ▶ Go to this webpage:
speakagent.com/treasure

The password is the location of the buried treasure. Type the password as an ordered pair **(x,y)**.

For example, if you think the treasure is buried at (0,0), type **(0,0)** as the password.



LEARNING GOALS

- ☐ Solve real-world problems by graphing points on a coordinate plane.
- ☐ Find distances between points using absolute values.

UNIT: Number Lines & Coordinate Planes

ABOUT SPEAK AGENT

This series includes activities that use real-world scenarios to connect learners to these five topics:

- Number Lines & Coordinate Planes
- Probability Trees
- Calculating Volume
- Pythagorean Theorem & Angles
- Linear Functions

Speak Agent Math+LanguageSM improves math performance for all K-12 students by empowering them to learn math through language. Students use the program to master key math concepts, develop reasoning and modeling skills, and to express mathematical thinking and ideas.

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