Accelerate LEARNING
THE LEADER in STEM EDUCATION

Independent Skills Practice Books

DIGITAL SAMPLE

Independent Skills Practice Books complement any math curriculum with multi-purpose practice problems perfect for homework, centers, review, and extra practice. Our team hopes this sample provides valuable insight into the content and format of these resources.

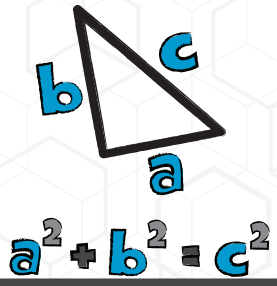
About Accelerate Learning

Accelerate Learning is dedicated to transforming the STEM landscape. Through innovative solutions, we empower educators and engage learners to maximize growth and achievement. We want teachers AND students to have the tools they need to engage in STEM in a more meaningful way.

Name: _____ Date: _____

SKILL C

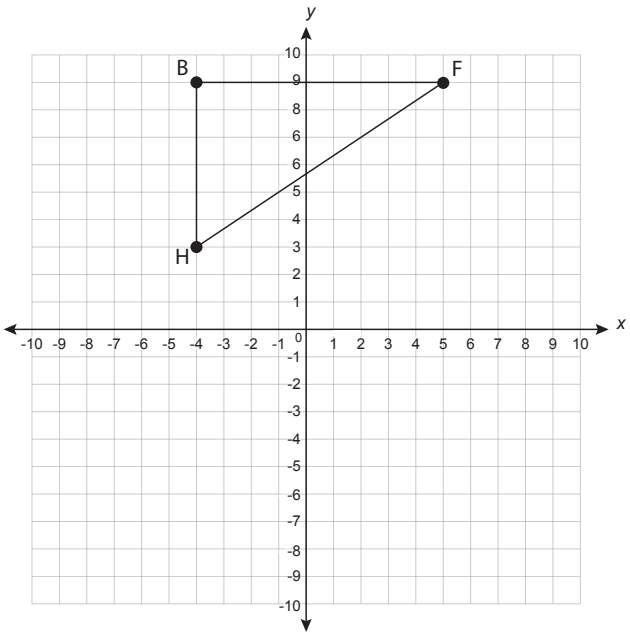
I can use the Pythagorean theorem to find the distance between two points in a coordinate system.



Guided Practice

Use the guiding tips to solve the problem. Scan the QR code to watch a video tutorial.

1 The coordinates of the vertices of a right triangle are $H\ (-4, 3)$, $B\ (-4, 9)$, and $F\ (5, 9)$ as shown on the coordinate plane.



What is the length of segment HF? Round your answer to the nearest tenth of a unit.

Guiding Tips

Use these if you need help.

- The Pythagorean theorem can be used to determine the length of a diagonal line on the coordinate plane.
- Count units or use subtraction to find the horizontal and vertical lengths of the two legs of the triangle.
- Use the lengths of the legs of the triangle formed and the Pythagorean theorem to find the length of the hypotenuse.

Video Tutorial

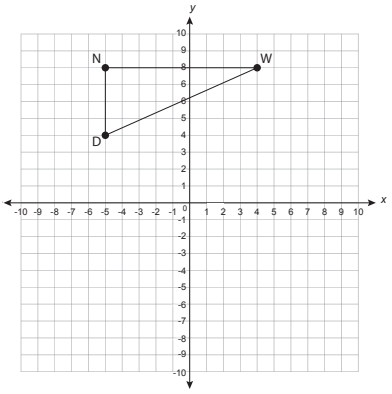
A video about how to solve.

I can use the Pythagorean theorem to find the distance between two points in a coordinate system.

Independent Practice

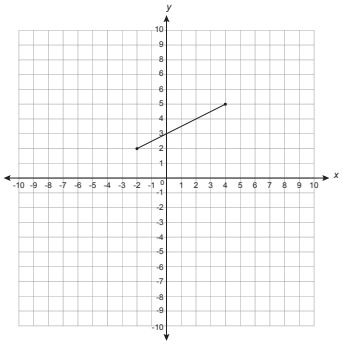
Solve the following questions using the skills from problem 1.

2 The coordinates of the vertices of a right triangle are $D\ (-5, 4)$, $N\ (-5, 8)$, and $W\ (4, 8)$, as shown.



What is the length of segment DW? Round your answer to the nearest hundredth of a unit.

3 A line segment is shown on the coordinate plane with endpoints at (–2, 2) and (4, 5).

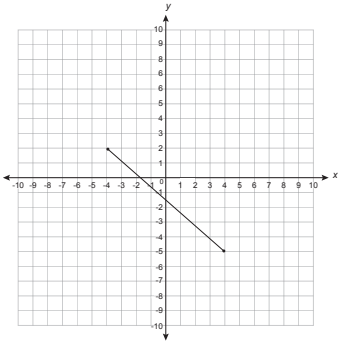


Find the length of the line segment. Express your answer as a square root.

4 Find the distance between the points (1, 1) and (7, 9).

5 Find the distance between the points (2, 3) and (–8, 7). Round your answer to the nearest tenth.

6 A line segment is shown on the coordinate plane with endpoints at (–4, 2) and (4, –5).



Find the length of the line segment. Express your answer as a square root.