From Warsaw to the World

Trace how an Indiana product reaches global buyers

4.H.12 "Research Indiana's modern growth, emphasizing manufacturing, new technologies, transportation, and global connections."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline what Warsaw factories make, circle a new technology they use, and number the transportation steps that can carry their products to buyers in other countries.

A Joint Effort in Indiana

1. In northern Indiana, the city of Warsaw is known for making medical devices. Some factories there make artificial hips and knees. Workers turn strong materials into parts that doctors can use to replace damaged joints. This work is one example of Indiana's modern manufacturing. It also shows how a product made in one Indiana town can meet a need far beyond that town.

2. Before a new joint part is made, engineers can create a design on a computer. In a factory, computer-guided machines can cut materials into carefully shaped pieces. Workers check the parts to make sure they fit the design. These tools help factories make many parts with the same careful measurements. New technology changes how people work, but skilled workers are still needed to plan and check each product.

3. Trucks can take finished devices from Warsaw along Indiana highways to shipping centers. From there, cargo planes can carry them to buyers in other countries. Indianapolis International Airport is a major cargo hub, with planes carrying goods in and out of the state. These routes connect Indiana factories with hospitals and doctors around the world. Global buyers help support manufacturing jobs back home.

2 ANSWER WITH EVIDENCE

Use the passage

1. What do workers in Warsaw make, and why is this manufacturing?

2. How do computer-guided machines and workers help factories make joint parts?

3. How can a device travel from Warsaw to a buyer in another country? Name both kinds of transportation in the passage.

4. How could buyers in other countries affect manufacturing jobs in Indiana?

3 YOUR TURN

Your own words

Imagine an Indiana factory makes bicycle helmets for buyers in another country. In three or four sentences, explain how workers, a new technology, transportation, and those buyers could help the factory grow.

ANSWER KEY

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GRADE 4 · 4.H.12

PART 1 · READ AND MARK

Underline what Warsaw factories make, circle a new technology they use, and number the transportation steps that can carry their products to buyers in other countries. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	What do workers in Warsaw make, and why is this manufacturing?	**They make artificial hips and knees by turning materials into parts used to replace damaged joints.**
2	How do computer-guided machines and workers help factories make joint parts?	**The machines cut materials into carefully shaped pieces, and workers check that the parts fit the design.**
3	How can a device travel from Warsaw to a buyer in another country? Name both kinds of transportation in the passage.	**A truck can carry it on highways to a shipping center, and a cargo plane can carry it to another country.**
4	How could buyers in other countries affect manufacturing jobs in Indiana?	**Their orders create demand for devices made in Indiana, which helps support factory jobs.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

Workers at an Indiana factory could make bicycle helmets for buyers in Canada. Computer-guided machines could shape the helmet parts, and workers could check them. Trucks could carry the helmets across the border. Orders from Canadian buyers could help the factory hire more workers.

Accept other passage-supported explanations of how production, technology, transportation, and global demand connect. For Part 3, accept plausible ideas that include all four elements named in the prompt.