Robot Factory Floor Adventures: Discovering Area

Math · Grade 3 · Robots Theme

🤖 Help Rodney and his robot friends measure their workshop spaces by calculating area on this exciting factory floor expedition!

NAME _____

DATE _____

SCORE _____ / 8

1

Rodney Copperbottom is building a new solar panel on top of Bigweld's factory roof. The panel is shaped like a rectangle that is 6 meters long and 4 meters wide. What is the total area of the solar panel that Rodney installed?

2

Fender, Rodney's best friend, just finished painting a large square canvas for the factory art display. Each side of the square is 5 feet long. How many square feet of canvas did Fender paint?

3

Cappy, the factory foreman, needs to cover the break room floor with new metal tiles. The break room is a rectangle measuring 8 meters by 3 meters. What is the area of the floor that needs to be tiled?

4

Piper Pinwheeler is designing a rectangular garden for the robot sanctuary. She wants the garden to be 7 feet long and 6 feet wide. What will be the total area of Piper's garden?

5

Ratchet is organizing the spare parts warehouse and needs to arrange a rectangular storage section that is 9 meters long and 2 meters wide. Calculate the area of the storage section.

6

Aunt Fanny is creating a square dance floor for the robot celebration party. Each side of the square dance floor measures 8 feet. What is the area of the dance floor where all the robots will celebrate?

7

Bigweld wants to build a rectangular training arena for new robots. The arena will be 10 meters long and 5 meters wide. What is the total area of the training arena?

8

Diesel the bulldozer is clearing a square section of the old factory floor for renovation. The section measures 4 meters on each side. How many square meters does Diesel need to clear?

Answer Key

1

Rodney Copperbottom is building a new solar panel on top of Bigweld's factory roof. The panel is shaped like a rectangle that is 6 meters long and 4 meters wide. What is the total area of the solar panel that Rodney installed?

ANSWER

24 square meters

2

Fender, Rodney's best friend, just finished painting a large square canvas for the factory art display. Each side of the square is 5 feet long. How many square feet of canvas did Fender paint?

ANSWER

25 square feet

3

Cappy, the factory foreman, needs to cover the break room floor with new metal tiles. The break room is a rectangle measuring 8 meters by 3 meters. What is the area of the floor that needs to be tiled?

ANSWER

24 square meters

4

Piper Pinwheeler is designing a rectangular garden for the robot sanctuary. She wants the garden to be 7 feet long and 6 feet wide. What will be the total area of Piper's garden?

ANSWER

42 square feet

5

Ratchet is organizing the spare parts warehouse and needs to arrange a rectangular storage section that is 9 meters long and 2 meters wide. Calculate the area of the storage section.

ANSWER

18 square meters

6

Aunt Fanny is creating a square dance floor for the robot celebration party. Each side of the square dance floor measures 8 feet. What is the area of the dance floor where all the robots will celebrate?

ANSWER

64 square feet

7

Bigweld wants to build a rectangular training arena for new robots. The arena will be 10 meters long and 5 meters wide. What is the total area of the training arena?

ANSWER

50 square meters

8

Diesel the bulldozer is clearing a square section of the old factory floor for renovation. The section measures 4 meters on each side. How many square meters does Diesel need to clear?

ANSWER

16 square meters