7th Grade

Circumference & Area of Circles
Digital Escape Room

The person whose office you are locked in likes to walk laps around the circular rug. The rug has a radius of 7 feet. If you walked 25 laps around the rug, how many feet would you walk? Check the bookshelf when you know the answer.

7 ft

The Great Classroom Escape
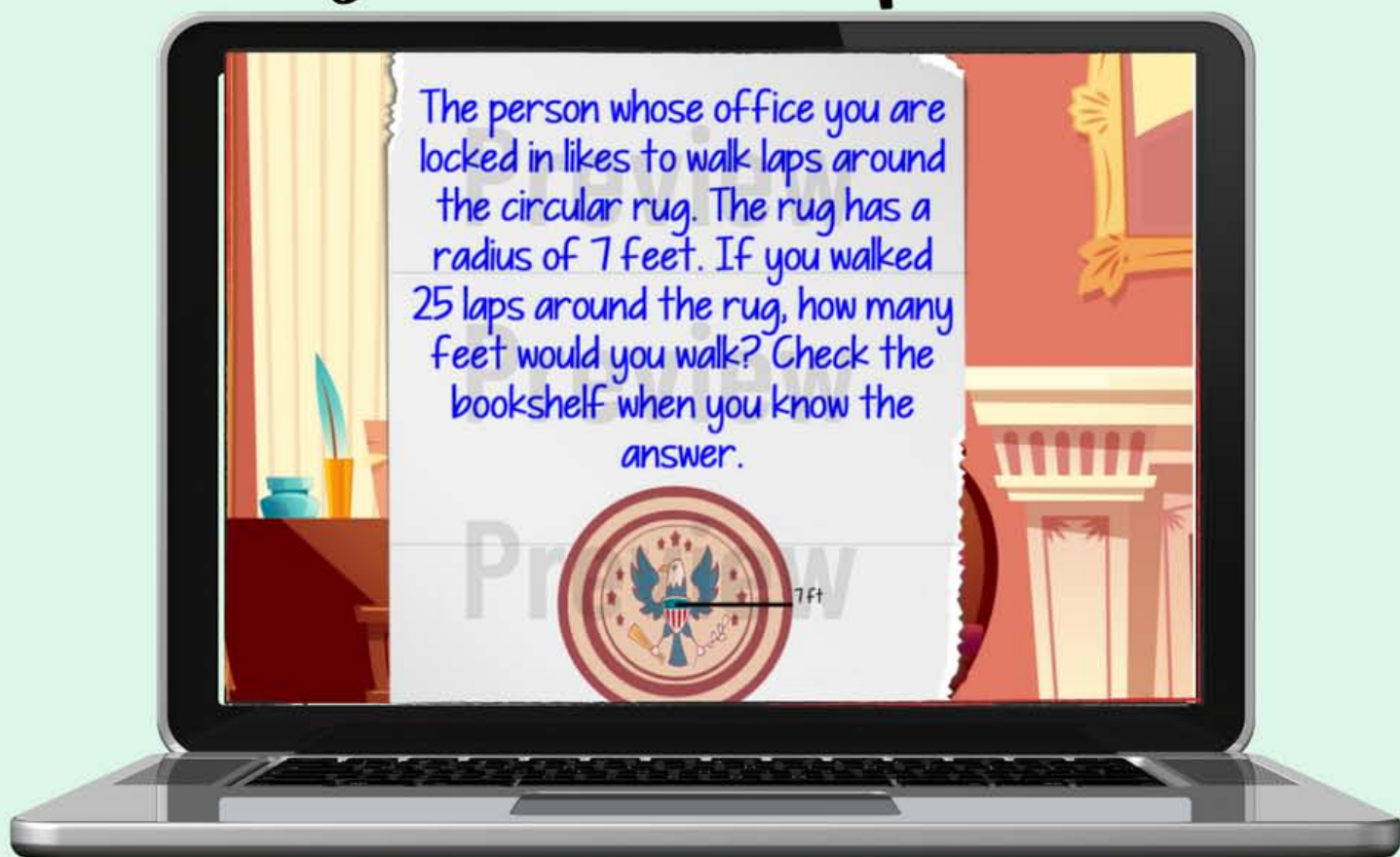
Standard

7.G.B.4

7th Grade Math Skills

Use formulas to find the area and circumference of a circle, solve word problems, find a diameter when given a circumference, and much more!

Fast Facts

✂ **No prep, click & go!**

🕐 **Escape Time ~30-50 minutes**

👤 **Use in pairs, small groups, or individually**

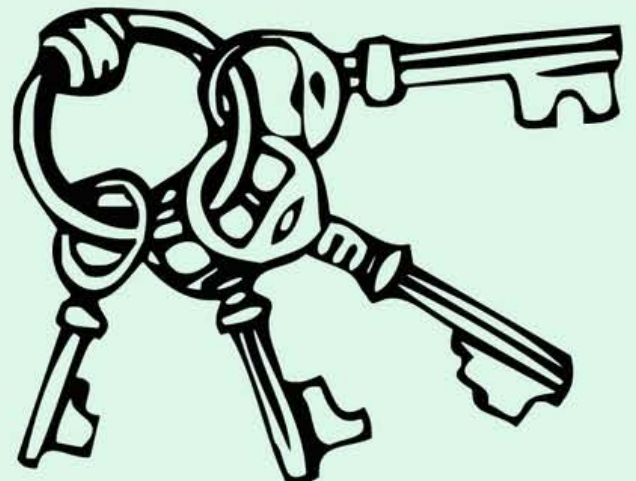🖥 **Requires internet connected device**

✔ **Self-Checking**

💬 **Virtual or in-person**

🧩 **Five engaging puzzles**

How it Works:

- The escape room is automated by a Google Form™ (Google™ accounts are not required).
- Use the quick start link to click & go, or create a copy of the form to save to your drive (the teacher must have a Google Account to save a copy).
- Students only progress through the puzzles when correct answers are entered.
- The form provides hints if students enter incorrect answers.

Escape the ~~Oval~~ Circle Office

Welcome to the Circle Office. Feel free to look around. Secret service agents are stationed outside to make sure the office stays secure. In order to exit, you must find fo[r] circular seal to open a secret escape tunnel.

I apologize for the coffee stain. It may be h[elpful] though. The **ratio** of its circumference to its diameter rounded to the nearest hundredth tells you the page, line number, and word number. That word is the password to the computer. The circumference is ≈ 11 inches. The diameter is 3.5 inches.

Enter Password:

The fact that Einstein was born on March 14, which has become commonly known as "Pi Day," leads many people to believe that he discovered the mathematical constant. This is an irrational thought! A birthday has nothing to do with the ratio of a circle's circumference to its diameter. Einstein may be a

3

There is a secret passage under th[e] desk. The first part of the key is i[n] the clock. Turn the dials to the correct time and the clock will ope[n]. To find the correct time, find the a[rea] of the shaded section of the clock[.] The angle formed by the hands is [a] right angle.

4 in.

Puzzle Preview

The circular office you are standing in has a circumference of 25.12 yards. There is a safe hidden behind a painting of a person. The combination to the safe is: Diameter-Radius-Area [of the] office. Round the area to the [nearest] whole number. Use 3.14 for [π].

The person whose office you are locked in likes to walk laps around the circular rug. The rug has a radius of 7 feet. If you walked 25 laps around the rug, how many feet would you walk? Check the bookshelf when you know the answer.

7 ft

Find the final piece, you need to change numbers into letters. A=1, B=2 …Y=25, Z=26
Find the radius of each circle:

1. $A=64\pi$ units^2
2. $d=30$ units
3. $C=36\pi$ units
4. $d=38$ units
5. $C=31.4$ units

You May Also Like

The Great Classroom Escape
SUBMARINE SABOTAGE
Addition and Subtraction of Rational Numbers

NO PREP! SELF-CHECKING!

Answer three security questions to reboot:

7TH GRADE MATH CONTENT 7.NS.A.1
DIGITAL ESCAPE ROOM!

The Great Classroom Escape
Ratios & Proportions

SOS

1. $y = 4x$ 2. $y = 2x$ 3. $y = 3\frac{1}{2}x$
4. $y = 1\frac{3}{5}x$ 5. $y = \frac{1}{2}x$

7th Grade Math Standards
DIGITAL ESCAPE ROOM!

The Great Classroom Escape
ESCAPE THE LOCKER ROOM
Vertical, Complementary & Supplementary Angles

Scan Keycard for Code

7TH GRADE GEOMETRY CONTENT 7.G.B.5
DIGITAL ESCAPE ROOM!

The Great Classroom Escape
Linear Functions
Slope-Intercept Form

TRAIN TICKET

Letter 1 $y = \frac{1}{2}x - 3$
Letter 2 $y = 4x - 2$
Letter 3 $y = -\frac{1}{2}x + 4$
Letter 4 $y = \frac{1}{2}x + 2$
Letter 5 $y = -2x - 1$

8TH GRADE CONTENT 8.F.A.2, 8.F.A.3, A.F.B.4
DIGITAL ESCAPE ROOM!

The Great Classroom Escape

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