

Grade 5 Reading Comprehension Challenge

Worksheet Set 021

Grade 5 · Reading Comprehension · Challenge

Name: _____ Date: _____

Read the passage carefully. Then answer all 8 questions using details from the text.

Testing Insulation from Reused Fibers

During late autumn, Opal joined a study at the materials workshop to compare insulation made from reused fibers.

The team marked 13 samples with dates and locations so later comparisons would use the same evidence.

Researchers collected observations with sealed boxes and digital thermometers and wrote the measurement conditions beside every result.

Before drawing a conclusion, the group checked unusual values and repeated one observation with a second reader.

The combined evidence showed that compressed denim slowed heat loss more than shredded paper.

Because one comparison alone could not explain every difference, the team recorded a limitation in its report.

After discussing that limitation, Opal recommended that the group repeat with equal material thickness.

The final report linked each claim to its source data so another team could evaluate the reasoning.

Questions

Return to the passage and write a short, text-based answer for each item.

1. In "Testing Insulation from Reused Fibers", where did Opal join the study?

2. In "Testing Insulation from Reused Fibers", what was the study designed to do?

3. In "Testing Insulation from Reused Fibers", how many samples did the team mark?

4. In "Testing Insulation from Reused Fibers", which tools or records supported the observations?

5. In "Testing Insulation from Reused Fibers", how did the group check an unusual value?

6. In "Testing Insulation from Reused Fibers", what did the combined evidence show?

7. In "Testing Insulation from Reused Fibers", what action did Opal recommend?

8. In "Testing Insulation from Reused Fibers", why did the report link each claim to source data?

Answer Key

Each answer below is supported by a sentence in the passage.

1. materials workshop	2. compare insulation made from reused fibers
3. 13	4. sealed boxes and digital thermometers
5. repeated one observation with a second reader	6. compressed denim slowed heat loss more than shredded paper
7. repeat with equal material thickness	8. so another team could evaluate the reasoning