Diagnostic Assessment Results

Tilley

Overall Score: 98.4%	Questions: 31 / 32
Modules Mastered: 7	Modules to Study: 1
Date: January 25, 2026	

Question-by-Question Review

Module 1: Integers and Operations - 3/4

Question 1: ✗ Incorrect
Your answer: |−8| = 8 and the opposite is -8
Correct answer: **|−8| = 8 and the opposite is 8**
Note: Correctly found absolute value but incorrectly identified the opposite of -8 as -8 instead of 8

Question 2: ✓ Correct
Note: Correct calculation shown

Question 3: ✓ Correct
Note: Correct calculation

Question 4: ✓ Correct
Note: Correct

Module 2: Module 2 - MASTERED

Question 5: ✓ Correct
Note: Correct fraction division

Question 6: ✓ Correct
Note: Excellent work showing all steps

Question 7: ✓ Correct
Note: Correct

Question 8: ✓ Correct
Note: Correct fraction multiplication

Module 3: Module 3 - MASTERED

Question 9: ✓ Correct
Note: Correct ratio

Question 10: ✓ Correct
Note: Correct rate calculation with proper units

Question 11: ✓ Correct
Note: Correct proportion solving

Question 12: ✓ Correct
Note: Correct setup and solution

Module 4: Module 4 - MASTERED

Question 13: ✓ Correct
Note: Correctly identified coefficient and constant

Question 14: ✓ Correct
Note: Correct substitution

Question 15: ✓ Correct
Note: Correct combining like terms

Question 16: ✓ Correct
Note: Correct distribution

Module 5: Module 5 - MASTERED

Question 17: ✓ Correct
Note: Correct inequality graph

Question 18: ✓ Correct
Note: Correct inequality solving

Question 19: ✓ Correct
Note: Correct function evaluation

Question 20: ✓ Correct
Note: Correct function table completion

Module 6: Module 6 - MASTERED

Question 21: ✓ Correct
Note: Correct perimeter calculation

Question 22: ✓ Correct
Note: Correct perimeter calculation

Question 23: ✓ Correct
Note: Correct area calculation

Question 24: ✓ Correct
Note: Correct area calculation

Module 7: Module 7 - MASTERED

Question 25: ✓ Correct
Note: Correct mean calculation

Question 26: ✓ Correct
Note: Correct median identification

Question 27: ✓ Correct
Note: Correct range calculation

Question 28: ✓ Correct
Note: Correct mode identification

Module 8: Module 8 - MASTERED

Question 29: ✓ Correct
Note: Correct sequence continuation

Question 30: ✓ Correct
Note: Correct geometric sequence calculation

Question 31: ✓ Correct
Note: Correct algebraic expression

Question 32: ✓ Correct
Note: Correct slope and y-intercept identification

Review Lessons

Based on your diagnostic results, here are focused mini-lessons for the areas that need more practice:

Integers and Operations (Score: 75% - 1 question missed)

Understanding Opposites ■

Great job getting the absolute value correct! You clearly understand that |−8| = 8 because absolute value is always positive - it's the distance from zero on the number line. Now let's clear up the concept of "opposite" which is where things got a bit mixed up.

What Does "Opposite" Mean?

The **opposite** of a number is what you get when you change its sign. Think of it like flipping the number to the other side of zero on the number line. If you start with a negative number like −8, its opposite is the positive version: +8. If you start with a positive number like 5, its opposite is −5. The key is that opposites are the same distance from zero but on different sides of the number line.

Memory Tip ■

Here's an easy way to remember: **"Opposite means opposite sign!"** Just flip the + or − sign. So the opposite of −8 is +8, and the opposite of +8 is −8. You can also think of opposites as numbers that would cancel each other out if you added them together: −8 + 8 = 0. Keep practicing - you're doing great with absolute value, and now you've got opposites down too! ■

What's Next?

You've shown strong skills in 7 modules! The system will now guide you through the 1 area that need more practice. Review the mini-lessons above, then dive into the lessons when you're ready.

Remember: This diagnostic helps us find the perfect starting point for you. Every mathematician started somewhere!