Pre-Algebra Placement Test

Instructions
for Pre-Algebra Placement Test

1. STOP: If the last math course the student completed, or will complete, is a Saxon or Shormann Math course, DO NOT take this placement test. Instead, see: Placement

2. Students should be supervised during the test.

3. No calculator, coaching, or other assistance is allowed.

4. The student should show all their work on a separate piece of paper.

5. Give the test (page 3).

6. Follow the steps under “Placement Guide” (page 2).

7. Grade the test using the Answer Key on page 4. Each question is worth 5 points.

Need Help? Contact a Placement Specialist

Placement Guide

1. Find your student's grade level in column 1.
2. Find their score in column 2.
3. Results:

   Failed: Take the 4th-8th Placement Test

   Passed! Take Shormann Pre-Algebra

Grade Level	Score	Results
6th Grade & Under	**80+**	**Passed** Take Shormann Pre-Algebra
	79 Or Less	**Failed**
7th Grade & Up	**70+**	**Passed**
	65-69	Reluctant or Struggling Math Student: **Failed**
		Good or Strong Math Student: **See "Good" Below**
	64 Or Less	**Failed**

A Good Math Student in 7th+ Grade Who Scored a 65-69: A good math student can learn the concepts they missed on the placement test in the review lessons of Shormann Pre-Algebra. These students can take Shormann Pre-Algebra or take the 4th-8th Placement Test.

Pre-Algebra Placement Test

1. Which digit is in the hundred-thousands place in the number 987,654,321?

2. Write the number twenty-one and five hundredths.

3. In an auditorium there are 25 rows with 18 chairs in each row. How many chairs are in the auditorium?

4. The average pumpkin weighs 6 pounds. The prize-winning pumpkin weighs 324 pounds. The prize-winning pumpkin weighs as much as how many average pumpkins?

5. What is the total price of a $45.79 item when 7% sales tax is added?

6. How many quarter-pound hamburgers can be made from 100 pounds of ground beef?

7. There were 13 original states. There are now 50 states. What fraction of the states are the original states?

8. $\frac{8}{3} \cdot \frac{3}{1}$

9. 3.7×0.25

10. $5\overline{)0.8}$

11. $2\frac{1}{2} + 1\frac{1}{6}$

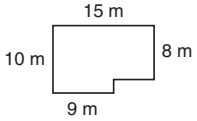
12. $\frac{3}{4} \div 1\frac{1}{2}$

13. $2^3 + \sqrt{25} \times 3 - 4^2 \div \sqrt{4}$

14. What is the average of 4.2, 2.61, and 3.6?

15. The area of a square is 64 cm^2. What is the perimeter of the square?

16. What is the area of this polygon?



17. $26.9 + 12 + w = 49.25$ Find w.

18. If $d = rt$, and if $r = 60$ and $t = 4$, what does d equal?

Complete the table for 19–20.

	Fraction	Decimal	Percent
19.	$\frac{5}{8}$	0.625	
20.		1.25	125%

Answers

1. 6
2. 21.05
3. 450 chairs
4. 54 average pumpkins
5. $49.00
6. 400 hamburgers
7. $\frac{13}{50}$
8. 8
9. 0.925
10. 0.16
11. $3\frac{2}{3}$
12. $\frac{1}{2}$
13. 15
14. 3.47
15. 32 cm
16. 138 m^2
17. 10.35
18. 240
19. 62.5%
20. $1\frac{1}{4}$