Placement Test for 4-8th Grades

The best placement for most students is to start in the course designed for their grade level listed below:

Standard and Accelerated Math Student Placement:

- 4th Grade Math 5/4, Third Edition
- 5th Grade Math 6/5, Third Edition
- 6th Grade Math 7/6. Fourth Edition
- 7th Grade See Is my student ready for Pre-Algebra?
- 8th Grade If Pre-Algebra has been taken*, see Is my student ready for Algebra 1?

*If Pre-Algebra has not been taken, take Pre-Algebra

Struggling/Reluctant Math Students:

- 5th Grade Math 5/4, Third Edition
- 6th Grade <u>Math 6/5, Third Edition</u>

7th Grade - Math 7/6, Fourth Edition

8th Grade - See Is my student ready for Pre-Algebra?

Instructions for Test:

- 1. This placement test should only be used to determine if your student is ready for a higher level than the recommended for their current grade level. For example a 4th grader wants to take 6/5. Otherwise, use the Placement information at the top of this page.
- 2. Print pages 1-3.
- 3. Allow the student to work until he/she cannot complete any more problems.
- 4. No calculator and no help from a parent or teacher.
- 5. The student should show all work on a separate piece of paper.
- 6. When finished, use the Answer Key at the end of this document to grade the test.
- 7. Use the Placement Guide below to determine placement.

Placement Guide:

- Fifteen or fewer correct from Questions 1–20: The student is not ready for Saxon 6/5. See the placement info at the top.
- 16+ correct from Questions 1–20: <u>Saxon 6/5, 3rd Edition</u>
- 16+ correct from Questions 1–20 and 16+ correct from Questions 21–40: Saxon 7/6, 4th Edition
- 16+ correct from 21–40 and 16+ correct from Questions 41–60: <u>Shormann Pre-Algebra</u>.

- **1.** Mae-Ying bought a package of paper priced at \$1.98 and 2 pens priced at \$0.49 each. The tax on the entire purchase was 18¢. What was the total cost of the items?
- 2. Seventy-five beans were equally divided into five pots. How many beans were in each pot?
- 3. Robo could run 7 miles in 1 hour. At that rate, how many miles could Robo run in 3 hours?

6 in.

4 in.

16

- **4.** At 11:45 A.M. Jason glanced at the clock. His doctor's appointment was in $2\frac{1}{2}$ hours. At what time was his appointment?
- 5. Find the sixth number in this counting sequence: 7, 14, 21, ...
- 6. Write the number of shaded rectangles shown as a mixed number.
- **7.** Twenty-five percent of this square is shaded. What percent of the square is not shaded?
- 8. What is the perimeter of this rectangle?
- 9. A square has one side that is 7 inches long. What is the area of the square?

10. To what number is the arrow pointing?	↓		
······································	270	280	290
11. 4.2 + 3.5 + 0.25 + 4.0			
12. 460 <u>× 9</u>	13. (6)3795	
14. $6 \times 4 \times 10$	15. \$4.86 + \$2.95		
Find each missing number for 16-17:			
16. <i>z</i> + 179	17.	67 - <i>B</i>	

- 18. Use digits to write the number three hundred forty-three.
- 19. Which digit in 6.125 is in the hundredths place?

496

20. What is the length of \overline{ST} ?

- **21.** In 2 hours the 3 boys picked a total of 1347 cherries. If they share the cherries evenly, then each boy will get how many cherries?
- **22.** After paying \$7.50 for a movie ticket, Salvador still had \$3.75. How much money did Salvador have before paying for a ticket?
- **23.** When three new members joined the club, the number of members increased to 28. How many members were in the club before the new members arrived?
- **24.** Adriana's age is $\frac{1}{3}$ of her dad's age. If her dad is 36 years old, how old is Adriana?
- **25.** Estimate the sum of 672 and 830 by rounding to the nearest hundred before adding.
- 26. Use digits to write eight hundred eighteen thousand, eighty.

27. \$2.54 5.36 + 0.75	28. 7 × 8 × 10
29. 4287 <u>× 5</u>	30. 3647 ÷ 6
31. 41,026 <u>- 39,543</u>	32. 30 <i>m</i> = 6000 Find <i>m</i> .
33. \$10 - (\$5.80 + 28¢)	34. $1\frac{3}{4} + 1\frac{3}{4}$
35. $\frac{7}{25} = \frac{\Box}{100}$	36. Half of 100 is 50, and half of 50 is 25. What number is half of 25?

- 37. A stop sign is the shape of an octagon. An octagon has how many sides?
- **38.** What are the next three terms in this counting sequence? . . ., 2700, 2800, 2900, ____, ____, ____, . . .
- **39.** This rectangle is half as wide as it is long. What is the perimeter of the rectangle?



40. The length of segment *AC* is 78 millimeters. If *BC* is 29 millimeters, then what is the length of segment *AB*?

- 41. Which digit is in the hundred-thousands place in the number 987,654,321?
- **42.** Write the number twenty-one and five hundredths.
- **43.** In an auditorium there are 25 rows with 18 chairs in each row. How many chairs are in the auditorium?
- **44.** 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?
- 45. What is the total price of a \$45.79 item when 7% sales tax is added?
- 46. How many quarter-pound hamburgers can be made from 100 pounds of ground beef?
- **47.** There were 13 original states. There are now 50 states. What fraction of the states are the original states?
- **48.** $\frac{8}{3} \cdot \frac{3}{1}$ **49.** 3.7×0.25
 50. $5\overline{)0.8}$ **51.** $2\frac{1}{2} + 1\frac{1}{6}$
- **52.** $\frac{3}{4} \div 1\frac{1}{2}$ **53.** $2^3 + \sqrt{25} \times 3 4^2 \div \sqrt{4}$
- 54. What is the average of 4.2, 2.61, and 3.6?
- 55. The area of a square is 64 cm². What is the perimeter of the square?



57. 26.9 + 12 + w = 49.25 Find w.

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

Complete the table for 59-60.

	Fraction	Decimal	Percent
59.	<u>5</u> 8	0.625	
60.		1.25	125%

Answer Key

62.5%

 $1 \frac{1}{4}$

1. \$3.14	31. 1483	59.
2. 15 beans	32. 200	60.
3. 21 miles	33. \$3.92	
4. 2:15 р.м.	34. 3 ¹ / ₂	
5. 42	35. 28	
6. 3 $\frac{1}{6}$	36. 12 $\frac{1}{2}$	
7. 75%	37. 8 sides	
8. 20 in.	38. 3000, 3100,	
9. 49 sq. in.	3200	
10. 286	39. 12 cm	
11. 11.95	40. 49 mm	
12. 4140	41. 6	
13. 632 R3	42. 21.05	
14. 240	43. 450 chairs	
15. \$7.81	44. 54 average pumpkins	
16. 317	45. \$49.00	
17. 51	46. 400 hamburgers	
18. 343	47. ¹³	
19. 2	48. 8	
20. 5 cm	49 , 0,925	
21. 449 cherries	50 0 16	
22. \$11.25	51 3 ²	
23. 25 members	52 ¹	
24. 12 years old	53 15	
25. 1500	54 3 47	
26. \$818,080	55 32 cm	
27. \$8.65	56. 138 m^2	
28. 560	57 10 35	
29. 21,435	58 2/0	
30. 607 R5	JU. 240	