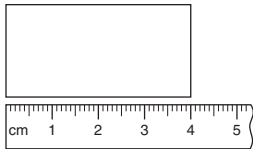# Pre-Algebra Placement Test

Read First: Instructions for Pre-Algebra Placement Test

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. $7 \times 8 \times 10$

29. 4287
$\times$ 5

30. $3647 \div 6$

31. 41,026
$-$ 39,543

32. $30m = 6000$ Find m.

33. $10 - ($5.80 + 28¢)

34. $1\frac{3}{4} + 1\frac{3}{4}$

35. $\frac{7}{25} = \frac{\square}{100}$

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. $5\overline{)0.8}$

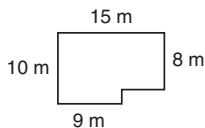**51.** $2\frac{1}{2} + 1\frac{1}{6}$

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 cm^2. What is the perimeter of the square?

56. What is the area of this polygon?

15 m, 10 m, 8 m, 9 m

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.	$\frac{5}{8}$	0.625	
60.		1.25	125%

2

Answer Key

To determine course placement, see this: Placement Guide for Pre-Algebra

21. 449 cherries

22. $11.25

23. 25 members

24. 12 years old

25. 1500

26. $818,080

27. $8.65

28. 560

29. 21,435

30. 607 R5

31. 1483

32. 200

33. $3.92

34. $3\frac{1}{2}$

35. 28

36. $12\frac{1}{2}$

37. 8 sides

38. 3000, 3100, 3200

39. 12 cm

40. 49 mm

41. 6

42. 21.05

43. 450 chairs

44. 54 average pumpkins

45. $49.00

46. 400 hamburgers

47. $\frac{13}{50}$

48. 8

49. 0.925

50. 0.16

51. $3\frac{2}{3}$

52. $\frac{1}{2}$

53. 15

54. 3.47

55. 32 cm

56. 138 m^2

57. 10.35

58. 240

59. 62.5%

60. $1\frac{1}{4}$