

This is a math review sheet to help you brush up for the placement test. If you need help with these problems, tutoring is available in Student Support Services in Madame Cadillac Hall.

Perform the indicated operations. DO NOT use calculators as they are not allowed for the placement test.

1. $439 + 27 + 3945 =$ _____

2. $2004 - 327 =$ _____

3. $402 \times 801 =$ _____

4. $12\sqrt{2880} =$ _____

5. $\frac{1}{2} + \frac{3}{4} =$ _____

6. $\frac{1}{3} + \frac{3}{4} =$ _____

7. $2\frac{1}{2} - \frac{2}{3} =$ _____

8. $3\frac{1}{3} \times 4\frac{1}{2} =$ _____

9. $\frac{4}{3} \div \frac{8}{9} =$ _____

10. $(2a + 7)(3a - 4) =$ _____

11. $27.2 - 8.63 =$ _____

12. $32.7 \times 0.06 =$ _____

13. $1.1\sqrt{0.55}$

14. $3 + 2 \times 7 =$ _____

15. Fill in the chart for percent fraction decimal equivalencies

percent	fraction	decimal
25%		
	4/5	
		0.3

16. What is 20 % of 700 ? _____

17. For the number 3057.26 , what is the place value of 0 = _____; of 6 = _____

18. Write this number: four hundred twenty seven thousand five hundred two=_____

19. Which number is largest? 20.04 20.004 20.4 _____

20. $7^2 =$ _____

21. $\sqrt{16} =$ _____

22. Which is longer? 3 days or 68 hours _____

23. In this series what number should come next? 2, 5, 8, 11, _____

24. What number added to 18 equals 7×4 ? _____

25. If you were playing a game and scored 15 points and then lost 18 points, what would be your score? _____

26. $(12)(-5) = \underline{\hspace{2cm}}$

31. 30 is what percent of 40 ? $\underline{\hspace{2cm}}$

27. $(-20)(-3) = \underline{\hspace{2cm}}$

32. How many dimes are in \$5. 80 $\underline{\hspace{2cm}}$

28. $-54 \div 6 = \underline{\hspace{2cm}}$

33. 4 years is equivalent to
 $\underline{\hspace{1cm}}$ months, $\underline{\hspace{1cm}}$ weeks, $\underline{\hspace{1cm}}$ days

29. $(5) + (-8) = \underline{\hspace{2cm}}$

34. 75 inches = $\underline{\hspace{1cm}}$ feet

30. $(24) - (-16) = \underline{\hspace{2cm}}$

35. What are the prime numbers between 1 and 20 ?

Apply the distributive property:

36. $2(4x + 5) = \underline{\hspace{2cm}}$

37. $3a(5a^2 + ab) = \underline{\hspace{2cm}}$

38. $-5b^2(7ab - 9a^2b^3) = \underline{\hspace{2cm}}$

Factor:

39. $3a - 21 = \underline{\hspace{2cm}}$

40. $5a^2 - 20a = \underline{\hspace{2cm}}$

Solve for x:

41. $x - 45 = 27 \quad \underline{\hspace{2cm}}$

44. $\frac{324}{x} = 8 \quad \underline{\hspace{2cm}}$

42. $4x = -36 \quad \underline{\hspace{2cm}}$

45. $\frac{6x - 1}{5} = 7 \quad \underline{\hspace{2cm}}$

43. $4x + 12 = 72 \quad \underline{\hspace{2cm}}$

Evaluate if $a = 3$, $b = 4$, $c = (-5)$

46. $\frac{a + b + c}{a} = \underline{\hspace{2cm}}$

49. $(3c)^3 = \underline{\hspace{2cm}}$

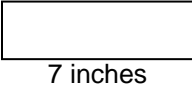
47. $bc - a = \underline{\hspace{2cm}}$

50. $\sqrt[3]{3a^2}$

48. $5c + 4a = \underline{\hspace{2cm}}$

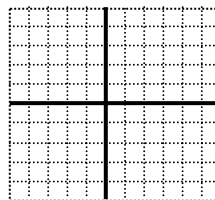
51. If a pizza is cut into 12 slices and you have a party for 30 people and you want everyone to have at least 2 slices each, how many pizzas do you need to order? $\underline{\hspace{2cm}}$

52. If someone ate 5 slices of the 12, what percent of the pizza did they eat? $\underline{\hspace{2cm}}$

53. What is the perimeter of this rectangle? $\underline{\hspace{2cm}}$  3 inches
7 inches

54. Graph these coordinates and label the points:

- A (6,2) B (-4,5)
- C (3,-2) D (-4,-5)



55. Connect points A and D
What is the slope of this line? $\underline{\hspace{2cm}}$