

MATH 103 – Basic Calculations (no calculators allowed)

Name ANSWERS

(circle your TA lab section)

▷ AB1, F 11:00-12:40, Brian Benson

▷ AB2, R 3:00-4:40, Jennifer Weber

▷ AB3, R 1:00-2:40, Brian Benson

▷ AB4, F 1:00-2:40, Jennifer Weber

1.  $6.5 + 12.08 = 18.58$

2.  $99 \div 6 = \frac{33}{2} = 16.5$

3.  $1/4 - 5/12 = -\frac{1}{6}$

4.  $9 \div 1/2 = 18$

5.  $3.8 - 5.2 = -1.4$

6.  $6/9 \div 3 = \frac{2}{9}$

7. What percent of 90 is equal to 30?  $33\frac{1}{3}\%$

8.  $1\frac{1}{5} \div 3\frac{1}{2} = \frac{12}{35}$

9. 70% of what number is equal to 210?  $300$

10.  $1\frac{2}{5} \times 4 = \frac{28}{5}$

11. Write 0.125 as a fraction.  $\frac{1}{8}$

12.  $0.5 \times 1.8 = 0.9$

13.  $(-6) - (-9) = 3$

14.  $21.36 \div 4 = 5.34$

15.  $1/4 \times (-52) = -13$

16.  $4 \times (-7) = -28$

17.  $4/3 + 3/4 = \frac{25}{12}$

18.  $7 - (-12) = 19$

19.  $0 \div 3 = 0$

20.  $16 \times 12 = 192$

21. Which is greater,  $-10$  or  $-8$ ?  $-8$

22.  $7 \div$  what number  $= 21$ ?

23.  $6 - 1\frac{3}{7} = 4\frac{4}{7}$  or  $\frac{32}{7}$

24.  $53.2 - 4.531 = 48.669$

25. Give a number between 100 and 150 that is divisible by 8.

any one of 104, 112, 120, 128,  
136, or 144

26. Solve for  $x$  if  $6/7 = 42/x$

49

27.  $10.8 \div 0.4 = 27$

28.  $1/6 \times 5/7 = \frac{5}{42}$

29.  $4.35 \times 3 = 13.05$

30. If you paid \$20 for a garment on sale for  $33\frac{1}{3}\%$  off the original price, what was the original price?

\$30

31.  $1\frac{1}{5} \times 2\frac{1}{3} = \frac{14}{5} = 2\frac{4}{5}$

32. Write  $5/16$  in decimal form.  $0.3125$

33. Write  $7\frac{1}{4}$  as an improper fraction.  $\frac{29}{4}$

34. Solve for  $R$  if  $2 \times (R + 8) = 60$ .

22

35.  $2/3 + 4/7 = \frac{26}{21}$

36.  $(-6) \times (-2) = 12$

37.  $\sqrt{121} = 11$

38.  $5 \div 0 = \text{undefined}$

39.  $-12 - 5 = -17$

40.  $-4 + 17 = 13$

41.  $45 \div 1.5 = 30$

42.  $7/10 - 2/5 = \frac{3}{10}$

43. What is the least common multiple of 6 and 9?

18

44.  $5/4 \div 1/4 =$

5

45. Name a number that is divisible by both 18 and 5.

90

46. Name a number that is between 4.4 and 4.46.

4.43

47. 25% of 844 =

211

48.  $-5 \div (-8) =$

$\frac{5}{8}$

49.  $0 \div 0 =$

undefined

50. Solve for  $H$  if  $(H + 6) \div 3 = 8$ .

18

51.  $2\frac{1}{4} + 1\frac{1}{3} =$

$3\frac{7}{12} = \frac{43}{12}$

52.  $16 \overline{)132} =$

8 with remainder 4

$8\frac{4}{6} = 8\frac{2}{3} = 8.25$

53.  $0.8 \overline{)11.36} =$

14.2