

## DSPM 0700 TEST 3 REVIEW WORKSHEET

**Write the decimal in words.**

- 1) 2.866

**Write the decimal in numbers.**

- 2) In his qualifying time trial, a race car driver averages a speed of one hundred seventy-six and sixteen thousandths mph.

**Write the decimal as a fraction or mixed number in lowest terms.**

- 3) 80.400

- 4) 0.864

**Insert  $<$ ,  $>$ , or  $=$  between each pair of numbers to form a true statement.**

- 5) 668.890 \_\_\_\_\_ 668.809

**Round the decimal to the given place value.**

- 6) 8.787 (nearest hundredth)

- 7) Attendance at a baseball game was reported to be 12,476. Round this number to the nearest thousand.

**Round the money amount to the specified place.**

- 8) \$.9952 to the nearest cent

- 9) A clothing store has a shirt on sale for \$31.39. Round this value to the nearest dollar.

**Add.**

- 10)  $428.2 + 0.57 + 89.75 + 73.8$

- 11)  $2.004 + (-2.585)$

**Subtract.**

- 12) Subtract 7.95 from 57

- 13)  $-7.8 - 2.7$

**Evaluate the given expression using the given values of the variables.**

- 14)  $y - x + z$ ;  $x = 7.6$ ,  $y = 9$ ,  $z = 0.86$

**Determine whether the given value is a solution to the given equation.**

- 15) Is 4.2 a solution to  $3.7 + x = 12.1 - x$ ?

**Simplify by combining like terms.**

- 16)  $26.6x - 11.3 - 11.7x + 17.2$

**Solve.**

- 17) In a practice run, a race car driver's speed is clocked at 138.555 mph at the end of his first lap, and at 166.441 mph at the end of the next lap. How much faster was he driving at the end of the second lap?

**Multiply.**

18)  $(-0.3)(12.5)$

**Evaluate the given expression using the given values of the variables.**

19)  $-5y$ ;  $y = -2.6$

**Determine whether the given value is a solution to the given equation.**

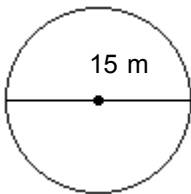
20) Is 8.6 a solution of  $0.5x = 4.03$ ?

**Find the circumference of the circle using 3.14 for  $\pi$ . ( Formula:  $C = 2\pi r$  or  $C = \pi d$  )**

21)



22)



**Solve.**

23) Francine earns \$10.63 per hour at her job. She worked 22 hours last week. Calculate Francine's pay before taxes.

**Divide.**

24)  $1.4 \div 0.7$

**Divide, and round the quotient as indicated.**

25) Divide 132.25 by 5.1 and round the quotient to the nearest hundredths.

**Evaluate the given expression using the given values of the variables.**

26)  $y \div 9$ ;  $y = 0.882$

**Determine whether the given value is a solution to the given equation.**

27)  $\frac{x}{9} = 6.21$ ;  $x = 5.589$

**Solve.**

28) Gabrielle buys \$10.75 worth of gasoline for her car. If the gas station charges \$1.579 per gallon, how many gallons did she get? (Round to the nearest tenth.)

29) Madison, Amanda, and Steven enter a 49.1-mile bicycle team relay race. They complete the course in 2.22 hours. What was their average speed on the course? (Round to the nearest tenth.)

**Simplify the expression.**

30)  $(-0.6)^2$

31)  $\frac{1.3 - 7.3}{-0.5}$

32)  $2.1(3.5 - 4.6)$

**Evaluate the given expression using the given values of the variables.**

33)  $\frac{x}{z}$ ;  $x = 84$ ,  $z = -1.2$

**Write the fraction as a decimal. Round to the nearest thousandth, if necessary.**

34)  $\frac{7}{8}$

**Insert  $<$ ,  $>$ , or  $=$  between each pair of numbers to form a true statement.**

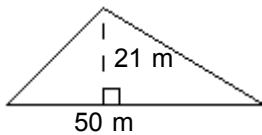
35)  $\frac{54}{7}$  \_\_\_\_\_  $7.713$

**Arrange in order from smallest to largest.**

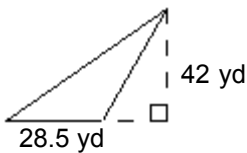
36)  $\frac{3}{4}$ ,  $\frac{5}{6}$ ,  $\frac{4}{5}$ ,  $0.95$

**Find the area of the figure. Round to the nearest thousandth, if necessary. ( Formula:  $A = \frac{1}{2} * \text{base} * \text{height}$  )**

37)



38)



**Solve the equation.**

39)  $5x - 12.3 = 2x + 9$

40)  $-8x = 24$

**Find the square root.**

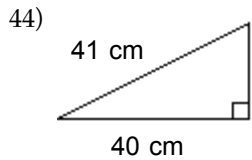
41)  $\sqrt{\frac{25}{144}}$

**Approximate the square root. Round to the nearest thousandth.**

42)  $\sqrt{743}$

**Using the given lengths of two sides of a right triangle, find the length of the side not given. Round to the nearest thousandth. ( Formula:  $a^2 + b^2 = c^2$  )**

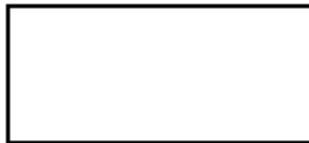
43) leg = 6, leg = 8



**Write each ratio as a ratio of whole numbers using fractional notation. Write the fraction in simplest form.**

45) Find the ratio of the width to the length of the rectangular dog run sketched below.

width = 15 yards



length = 18 yards

**Write each rate as a fraction in simplest form.**

46) 15 cars for 105 people

**Write each rate as a unit rate.**

47) \$650 earned in 5 weeks

**Find each unit price.**

48) Find which is the better buy (lower cost per ounce) by finding each unit price rounded to three decimal places if necessary. Assume that different sizes of the same brand are being compared.

Shampoo:

\$1.22 for 18.5 ounces

\$1.23 for 14.5 ounces

49) \$41.60 for 4 cassette tapes

**Solve each proportion for the given variable. Round the solution where indicated.**

50)  $\frac{x}{57} = \frac{5}{19}$

51)  $\frac{1}{2} = \frac{x}{3}$

52)  $\frac{3}{x} = \frac{3}{4}$

$$53) \frac{2}{9} = \frac{9}{x}$$

**Solve each proportion for the given variable.**

$$54) \frac{6}{\frac{2}{5}} = \frac{30}{x}$$

**Solve.**

- 55) The ratio of a quarterback's completed passes to attempted passes is 2 to 9. If he attempted 45 passes, find how many passes he completed. Round to the nearest whole number if necessary.
- 56) On an architect's blueprint, 1 inch corresponds to 12 feet. Find the length of a wall represented by a line  $6\frac{1}{4}$  inches long on the blueprint. Round to the nearest tenth if necessary.

## Answer Key

Testname: DSPM700TEST3REVIEW.TST

- 1) two and eight hundred sixty-six thousandths
- 2) 176.016 mph
- 3)  $80\frac{2}{5}$
- 4)  $\frac{108}{125}$
- 5) >
- 6) 8.79
- 7) 12,000
- 8) \$1.00
- 9) \$31
- 10) 592.32
- 11) -0.581
- 12) 49.05
- 13) -10.5
- 14) 2.26
- 15) Yes
- 16)  $14.9x + 5.9$
- 17) 27.886 mph
- 18) -3.75
- 19) 13
- 20) No
- 21) 37.68 yd
- 22) 47.1 m
- 23) \$233.86
- 24) 2
- 25) 25.93
- 26) 0.098
- 27) No
- 28) 6.8 gal
- 29) 22.1 mi/hr
- 30) 0.36
- 31) 12
- 32) -2.31
- 33) -70
- 34) 0.875
- 35) >
- 36)  $\frac{3}{4}, \frac{4}{5}, \frac{5}{6}, 0.95$
- 37) 525 m<sup>2</sup>
- 38) 598.5 yd<sup>2</sup>
- 39) 7.1
- 40) -3
- 41)  $\frac{5}{12}$
- 42) 27.258
- 43) 10
- 44) 9 cm

Answer Key

Testname: DSPM700TEST3REVIEW.TST

45)  $\frac{5}{6}$

46)  $\frac{1 \text{ car}}{7 \text{ people}}$

47) \$130.00/week

48) \$1.22 for 18.5 ounces

49) \$10.40/cassette tape

50) 15

51)  $1\frac{1}{2}$

52) 4

53)  $40\frac{1}{2}$

54) 2

55) 10 passes

56) 75 feet