Name: _____ **Date:** _____

Math Pre-Test

1. Luis is an ironworker. Luis's paycheck totals $2,480 after taxes. The paycheck was for 80 hours of work. After taxes, how many dollars did Luis make per hour?
   a. $24
   b. $25
   c. $31
   d. $80

2. In the number 0.1457, what numeral is in the tenths place?
   a. 0
   b. 1
   c. 4
   d. 5

3. A job site has total of 342 steel pipes that are each 50 feet long. How many total feet of steel pipe does it have?
   a. 292
   b. 17,100
   c. 17,500
   d. 34,250

4. In the number 0.6257, what numeral is in the hundredths place?
   a. 6
   b. 7
   c. 5
   d. 2

5. 6/8 equals how many quarters?
   a. 1/4
   b. 2/4
   c. 3/4
   d. 6/4

6. 4/8 X 1/12
   a. 1/24
   b. 1/12
   c. 1/6
   d. 5/20

7. Which of the following fraction pairs are equivalent fractions?
   a. 1/4 and 1/2
   b. 1/4 and 3/4
   c. 1/4 and 4/12
   d. 1/4 and 8/32

8. 20/100 X 2/4
   a. 1/100
   b. 1/10
   c. 20/400
   d. 22/400

9. A company has seven job sites. At each of these sites, there are exactly eight scissor lifts. How many scissor lifts are at all of the job sites combined?
   a. 15
   b. 56
   c. 78
   d. 87

10. Which of the following answers places the decimals in order from the smallest value to the largest?
    a. 0.004, 0.042, 0.420, 0.402
    b. 0.004, 0.042, 0.402, 0.420
    c. 0.402, 0.420, 0.004, 0.042
    d. 0.420, 0.402, 0.042, 0.004

11. The improper fraction 37/6 can be changed to the mixed number
    a. 6
    b. 5-7/16
    c. 6-1/16
    d. 37

12. 2/5 ÷ 5/2 = _____.
    a. 1
    b. 1/5
    c. 4/25
    d. 6/10

13. 9/22 ÷ 1/4 = _____.
    a. 18/11
    b. 23/11
    c. 34/88
    d. 88/9

14. When a number is stated as a percentage, it means that number represents a portion of_____.
   a. 25
   b. 50
   c. 75
   d. 100

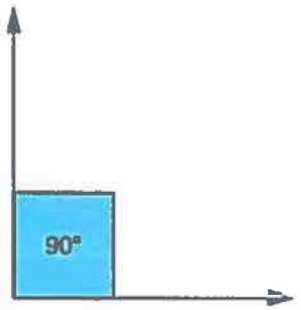
15. 90.2°F = _____°C
   a. 32.33
   b. 44.44
   c. 58.2
   d. 104.76

16. When converting percentages to decimals, simply move the decimal point _____.
   a. Once to the left
   b. Once to the right
   c. Twice to the left
   d. Twice to the right

17. 21°C = _____°F
   a. 37.8
   b. 44.44
   c. 69.8
   d. 101.8

18. Calculate the cost of 16 cubic yards of ready-mixed concrete at $79.15 per cubic yard.
   a. $1,264.80
   b. $1,266.40
   c. $1,345.55
   d. $1,626.40

19. What type of angle is shown in *Workbook Question Figure 11*?
   a. Acute
   b. Straight
   c. Obtuse
   d. Right



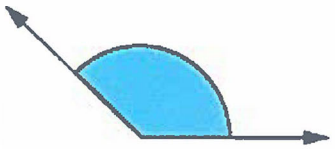
MATH-15_WO11.EPS
Figure 11

20. If glass block weighs 30.2 pounds per square foot, what would 18.4 square feet of glass block weigh in pounds?
   a. 58.88
   b. 473.6
   c. 555.68
   d. 588.8

21. Convert 0.1 to a fraction.
   a. 1/100
   b. 1/10
   c. 2/10
   d. 1/2

22. Convert 0.5 to a fraction.
   a. 1/10
   b. 1/15
   c. 1/2
   d. 5/2

23. What type of angle is shown in *Workbook Question Figure 12*?
   a. Obtuse
   b. Right
   c. Acute
   d. Straight


MATH-15_WO12.EPS
Figure 12

24. The area of a 9.4-foot square is _____.
   a. 9.4 sq ft
   b. 37.2 sq ft
   c. 81 sq ft
   d. 88.36 sq ft

25. 5/18 + 2/12= _____.

a. 1/2
b. 4/9
c. 8/18
d. 7/30

27. 25/64 + 9/32 + 10/64 = _____.

a. 3/4
b. 4/3
c. 53/64
d. 44/128

28. 4/6 − 1/6 = _____.

a. 1/2
b. 1/4
c. 3/6
d. 5/16

29. 4/6 − 1/12 = _____.

a. 3/6
b. 4/12
c. 7/6
d. 7/12

31. Determine the volume of a 6-foot cube.

a. 36 cu ft
b. 36 sq ft
c. 216 cu ft
d. 216 sq ft

33. Convert 3.937 inches to millimeters.

a. 39.37
b. 100
c. 200
d. 393.77

35. Convert 30 yards to meters.

a. 27.43
b. 32.7
c. 90
d. 93.77

36. Convert 100 kilometers to miles.

a. 33.33
b. 62.14
c. 333.33
d. 621.4

26. The top of a window frame's head is 50 inches high. The bottom of the window's sill is 32 inches high. What is the difference in height from the top of the head to the bottom of the sill?

a. 18 inches
b. 22 inches
c. 27 inches
d. 110 inches

30. What type of angle is shown in *Workbook Question Figure 13*?

a. Acute
b. Right
c. Obtuse
d. Straight

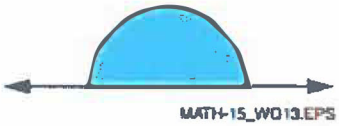


Figure 13

32. The area of a triangle with a base of 4 meters and a height of 5 meters is _____.

a. 10 sq m
b. 14 sq m
c. 22.4 sq m
d. 36 sq m

34. The area of a triangle-shaped piece of wood with a base of 12 inches and a height of 2.1 inches is _____.

a. 10 sq inches
b. 12.6 sq inches
c. 18.4 sq inches
d. 26.1 sq inches

37. 11,458.88 − 7,775.38 = _____.

a. 368.5
b. 3,683.26
c. 3,683.5
d. 19,234.26

38. 9.4 × 84.8 = _____.

a. 77.91
b. 79.71
c. 779.12
d. 797.12

39. 131,333 − 83,838.33 = _____.

a. 47,494.67
b. 47,495
c. 47,495.67
d. 47,499

40. 88.4 × 333.33 = _____.

a. 2,799.972
b. 2,6814.372
c. 2,9201.172
d. 29,466.372

41. Identify the measurement shown in *Workbook Question Figure 4*.

a. 2 3/8"
b. 2 1/2"
c. 2 5/8"
d. 2 11/16"

42. Identify the measurement shown in *Workbook Question Figure 5*.

a. 3 3/16"
b. 3 3/4"
c. 3 13/16"
d. 3 7/8"

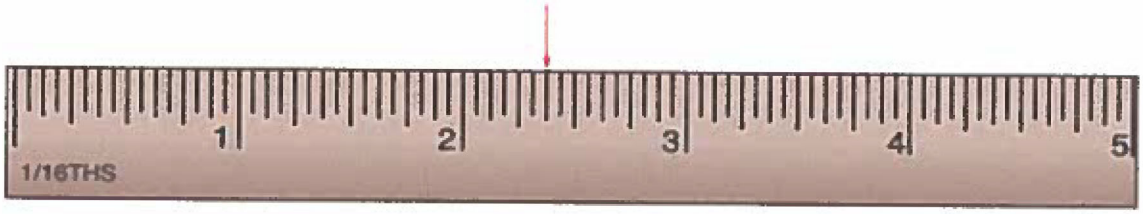


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Figure 4

MATH-15_RQ05.EPS

Figure 5

43. Identify the measurement shown in *Workbook Question Figure 6* and state in centimeters.

a. 0.2
b. 0.3
c. 1.2
d. 2

44. Identify the measurement shown in *Workbook Question Figure 7* and state in centimeters.

a. 0.3
b. 1
c. 1.3
d. 3

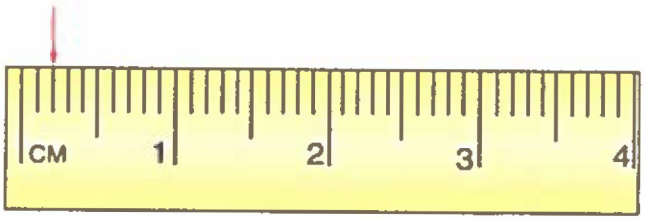

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Figure 6

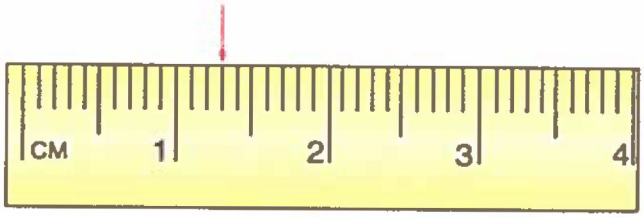

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Figure 7

45. Determine the volume of a 7.5-inch cube.

a. 22.5 cu in
b. 166 cu in
c. 216 cu in
d. 421.88 cu in

47. Determine the volume of a 3.7-meter cube.

a. 11.1 m^2
b. 11.2 m^3
c. 50.65 m^3
d. 121.77 m^3

49. Determine the volume of a 57.33-centimeter cube.

a. 1,451.7 cm^3
b. 9,999.33 cm^3
c. 13,333.33 cm^3
d. 188,428.17 cm^3

51. The volume of a cylindrical tank that is 2 feet in diameter and 6 feet high is _____.

a. 18.84 cu ft
b. 19.26 cu ft
c. 120 cu ft
d. 122.44 cu ft

53. Identify the measurement shown in *Workbook Question Figure 8* and state in centimeters.

a. 1.4
b. 1.5
c. 2.5
d. 15

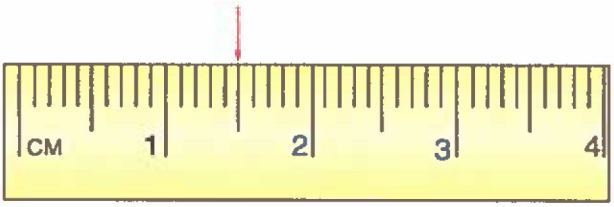

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Figure 8

54. Identify the measurement shown in *Workbook Question Figure 9* and state in millimeters.

a. 2.4
b. 2.5
c. 2.6
d. 24

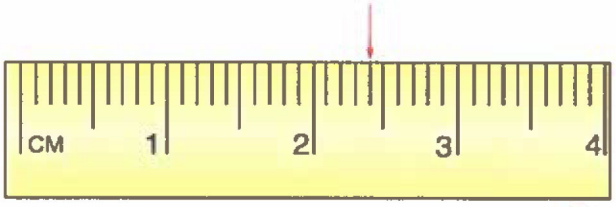

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Figure 9

46. Calculate the area of a rectangular scaffold platform that is 4 meters by 3 meters.

a. 12 m
b. 12 m^2
c. 48 m^2
d. 48 m^3

48. Calculate the area of a rectangular scaffold platform that is 10 meters by 6.4 meters.

a. 8 m
b. 16.4 m^2
c. 32.8 m^2
d. 64 m^2

50. Calculate the area of a rectangle that is 29.1 meters by 33.7 meters.

a. 980.67 m^2
b. 1,012 m^3
c. 1,048.7 m
d. 1,048.77 m^2

52. The area of a 3-foot square piece of sheet metal is _____.

a. 3 sq ft
b. 3.33 sq ft
c. 9 sq ft
d. 12 sq ft