Construction Math

Study Guide

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Percentage means\_\_\_\_\_\_\_.
2. Out of 100
3. Out of 50
4. Out of 1,000
5. Out of 10,000
6. Convert 0.86 into a percentage.
7. 0.0086%
8. 0.086%
9. 8.6%
10. 86%
11. You have to lay a floor for a 14-square foot shed. The area is \_\_\_\_ square feet.
12. 19.6
13. 144.0
14. 196.0
15. 28.0
16. The metric system is used to measure length, weight, volume, and \_\_\_\_\_.
17. Currency
18. Language
19. Diameter
20. Temperature
21. Your job as a carpenter pays $20/hour and you worked 40 hours last week. The taxes paid from your salary were $83 and $19. How much is your total check?
22. $698
23. $720
24. $810
25. $982
26. A room measures 12 feet by 16 feet long. What is the square footage of this room?
27. 28
28. 48
29. 180
30. 192
31. Convert 0.75 meters to centimeters.
32. 0.0075 cm
33. 0.075 cm
34. 7.50 cm
35. 75.0 cm
36. The metric ruler is divided into \_\_\_\_\_\_\_\_\_\_\_\_.
37. Inches and half inches
38. Centimeters and millimeters
39. Millimeters and decimeters
40. Eighth inches and sixteenth inches
41. Convert 0.86 into a fraction. Reduce to lowest terms.
42. 86/100
43. 14/100
44. 43/50
45. 7/50
46. An electrician earns $25 per outlet he installs. The cost of the material is $7.50 per outlet. A new addition needs 12 outlets installed. How much money will he earn?
47. $300.00
48. $210.00
49. $90.00
50. $390.00
51. 1/4 + 3/8 = \_\_\_\_\_\_\_\_\_. Reduce your answer to the lowest term.
52. 4/8
53. ½
54. 5/8
55. 5/4
56. 8/12 – 4/8 = \_\_\_\_\_\_\_\_. Reduce your answer to the lowest term.
57. 4/24
58. 2/14
59. 1/7
60. 1/6
61. A screw is 3-7/10 inches long. This is written as \_\_\_\_\_\_\_\_ inches.
62. 3.13
63. 3.10
64. 3.60
65. 3.70
66. 7/8 x 3/9 = \_\_\_\_\_\_\_\_. Reduce your answer to the lowest term.
67. 21/72
68. 23/63
69. 7/24
70. 8/21
71. You have 5,814 feet of rope that you need cut into 27-foot sections. How many sections of rope will you have?
72. 215 sections with 3 feet left over
73. 215 sections with 8 feet left over
74. 215 sections with 9 feet left over
75. 218 sections with 3 feet left over
76. In the metric system, each millimeter increment is\_\_\_\_\_\_\_\_\_.
77. 1/1000 of a centimeter
78. 1/100 of a centimeter
79. 1/10 of a centimeter
80. 10 centimeters
81. The volume of a shape in the metric system is stated in terms of \_\_\_\_\_\_\_\_\_.
82. cu m
83. sq m
84. cu ft
85. sq ft
86. Convert 612 centimeters into meters.
87. 0.612 m
88. 6.12 m
89. 61.2 m
90. 612 m
91. A carpenter has to build an addition which needs 150 studs. Each stud costs $6.75. What is the total cost of the studs needed?
92. $1.012.50
93. $1,201.50
94. $101.25
95. $2,101.25
96. The equivalent of ¾ inch is \_\_\_\_\_\_\_\_\_\_.
97. ½ in
98. 6/8 in
99. 3/8 in
100. 4/3 in
101. One sheet of drywall weighs 48.7 lbs. You have ordered 50 sheets, so your total order will weigh \_\_\_\_\_\_\_\_\_\_\_.
102. 2,532.0 lbs
103. 2,435.0 lbs
104. 2,430 lbs
105. 243.5 lbs
106. Multiply 4.5 x 7.
107. 31.5
108. 315
109. 52
110. 5.2”
111. What is 1/3 of a dollar?
112. 33 cents
113. 0.067 cents
114. 67 cents
115. 0.033 cents
116. You need to mix 42 pounds of mortar. Each pound of mortar mix requires 0.03 liters of water. How many liters of water do you need? (Round your answer to the nearest tenth.)
117. 1.2 liters
118. 1.3 liters
119. 12.6 liters
120. 13.2 liters
121. When converting decimals to a percentage, simply move the decimal point \_\_\_\_\_\_\_\_\_.
122. One place to the left
123. One place to the right
124. Two places to the left
125. Two places to the right
126. While the measurement of the individual angles in a triangle can vary, their sum is always \_\_\_\_\_\_\_\_\_ degrees.
127. 45
128. 90
129. 180
130. 360
131. The volume of a 9 inch cube is \_\_\_\_\_\_\_\_\_.
132. 243 cu yd
133. 729 cu in
134. 818 sq in
135. 1243 cu in
136. The area of a triangular roof section with a base of 7 feet and a height of 3.5 feet is \_\_\_\_\_\_\_.
137. 7 cu ft
138. 12 sq ft
139. 12.25 sq ft
140. 24.5 sq ft