

CA Algebra 1 Standard 15.0

MULTIPLE CHOICE

- Michelle sold tickets for the basketball game. Each adult ticket cost \$3.00 and each student ticket cost \$1.50. There were 105 tickets sold for a total of \$250.00. How many of each type of ticket were sold?
 - 90 adult and 15 student
 - 15 adult and 90 student
 - 43 adult and 63 student
 - 63 adult and 43 student
- Two cars were traveling in the same direction on the same course. The first car was traveling 65 mph and the second car was traveling 55 mph. After how long were the two cars 45 miles apart?
 - 2 hours
 - 3 hours
 - 3.5 hours
 - 4.5 hours
- How many pounds of apples costing \$0.64 per pound must be added to 30 pounds of apples costing \$0.49 per pound to create a mixture that would cost \$0.58 per pound?
 - 40
 - 45
 - 50
 - 60
- Mark has twice as many quarters as nickels and three more dimes than nickels. He has \$4.20 in all. How many of each type of coin does he have?
 - 6 nickels, 9 dimes, 12 quarters
 - 8 nickels, 7 dimes, 13 quarters
 - 10 nickels, 6 dimes, 12 quarters
 - 14 nickels, 8 dimes, 10 quarters
- An advertisement for an orange drink claims that the drink contains 10% orange juice. How much pure orange juice would have to be added to the drink to obtain 5 quart a mixture containing 40% orange juice?
 - 2 quarts
 - $2\frac{1}{2}$ quarts
 - 3 quarts
 - $3\frac{1}{2}$ quarts
- Laura and Dale drove in opposite directions. After two hours they were 68 kilometers apart. Laura drove 2 kilometers per hour faster than Dale. How fast did Laura drive?
 - 16 km/h
 - 18 km/h
 - 20 km/h
 - 24 km/h
- An aluminum alloy containing 48% aluminum is to be made by combining 30% and 60% alloys. How many pounds of the 60% alloy must be added to 24 pounds of the 30% alloy to produce the desired aluminum alloy?
 - 16
 - 30
 - 36
 - 42

8. Tony left his house traveling at a rate of 32 mph. A half hour later, Dante left Tony's house traveling at a rate of 40 mph. How long did it take Dante to catch up with Tony?
- A. 2 hours
B. 2.5 hours
C. 3 hours
D. 4 hours
9. Marcus can paint a garage in 3 hours. Gina can paint the same garage in 2 hours. How long will it take Marcus and Gina to paint the garage if they work together?
- A. 1.2 hours
B. 1.5 hours
C. 2.5 hours
D. 5 hours
10. How much water must be added to 12 grams of a 90% iodine solution to produce a 25% iodine solution?
- A. 25 grams
B. 28.5 grams
C. 30 grams
D. 31.2 grams