Solve.

1) It takes Kim 18 minutes to type and spell check 14 pages of a manuscript. Find how long it takes her to type and spell check 91 pages. Round answer to the nearest whole number if necessary.
   A) 18 minutes  B) 1638 minutes  
   C) 71 minutes  D) 117 minutes

2) It takes Mike 40 minutes to type and spell check 6 pages. Find how many pages he can type and spell check in 3.5 hours. Round answer to the nearest tenth if necessary.
   A) 1400.0 pages  B) 52.5 pages  
   C) 21 pages  D) 31.5 pages

3) On an architect’s blueprint, 1 inch corresponds to 3 feet. Find the length of a wall represented by a line 3 1/3 inches long on the blueprint. Round to the nearest tenth if necessary.
   A) 10 feet  B) 9.0 feet  
   C) 13.3 feet  D) 111.1 feet

4) On an architect’s blueprint, 1 inch corresponds to 4 feet. If an exterior wall is 38 feet long, find how long the blueprint measurement should be. Write answer as a mixed number if necessary.
   A) 1 1/19 inches  B) 9 1/2 inches  
   C) 12 2/3 inches  D) 38 inches

5) It is recommended that there be at least 12.1 square feet of floor space in a classroom for every student in the class. Find the minimum floor space that 26 students require. Round to the nearest tenth if necessary.
   A) 314.6 square feet  B) 46.5 square feet  
   C) 214.9 square feet  D) 12.1 square feet

6) It is recommended that there be at least 14.35 square feet of ground space in a garden for every newly planted shrub. A garden is 24.6’ by 21’. Find the maximum number of shrubs the garden can accommodate.
   A) 36 shrubs  B) 147 shrubs  
   C) 12 shrubs  D) 2 shrubs
7) It is recommended that there be at least 7 square feet of work space for every person in a conference room. A certain conference room is 17’ by 15’. Find the maximum number of people the room can accommodate.
   A) 37 people   B) 36 people
   C) 56 people   D) 46 people

8) In a random sampling from a survey concerning music listening habits, 120 out of 180 mid-level executives preferred country to heavy metal. Taking all the data from the survey, 336 mid-level executives expressed a preference for country over heavy metal. How many mid-level executives would you estimate took part in the survey?
   A) 504 executives   B) 494 executives
   C) 499 executives   D) 513 executives

9) At a college in eastern Missouri, 7 out of every 10 students worked either a full-time or part-time job in addition to their studies. If 5800 students were enrolled at the college, how many did not have a full-time or part-time job?
   A) 4060 students   B) 1640 students
   C) 4080 students   D) 1740 students

10) Traveling in France, Alan exchanged 10 U.S. dollars for 70 francs. A few days later, he exchanged 25 U.S. dollars for francs and got the same exchange rate. How many francs did Alan receive? Round to the nearest tenth.
    A) 169.3 francs   B) 175 francs
    C) 171.9 francs   D) 25 francs
Answer Key
Testname: MAT0020_APPLICATIONS OF PROPORTIONS I

1) D
2) D
3) A
4) B
5) A
6) A
7) B
8) A
9) D
10) B