

## Multiply Fractions Assessment Answer Key

1. B
2. D
3. B
4. C
5. A
6. D
7. C
8. D
9.  $11 \times \frac{1}{4} = \frac{11}{4}$  teaspoons, or  $2\frac{3}{4}$  teaspoons;  
 Sample explanation: Each pizza gets  $\frac{1}{4}$  teaspoon of salt, so 11 pizzas will need 11 times  $\frac{1}{4}$  teaspoon. In a fraction, the numerator is the number of copies of the unit fraction that are used to build the fraction; 11 times  $\frac{1}{4}$  is  $\frac{11}{4}$ , because  $\frac{11}{4}$  is the fraction built using 11 copies of  $\frac{1}{4}$ .
10.  $22 \times \frac{3}{4} = \frac{66}{4}$  cups, or  $16\frac{1}{2}$  cups; Sample explanation: Each pot gets  $\frac{3}{4}$  cup of soil, so 22 pots will need 22 times  $\frac{3}{4}$  cup;  $22 \times \frac{3}{4}$  is the same as  $22 \times 3 \times \frac{1}{4}$ , which is the same as  $66 \times \frac{1}{4}$ , or  $\frac{66}{4}$ .
11.  $\frac{275}{12}$  cups, or  $22\frac{11}{12}$  cups; Sample explanation: Each student gets  $\frac{11}{12}$  cup and there are 25 students, so the total amount of popcorn needed is  $\frac{11}{12}$  cup copied 25 times, or  $\frac{11}{12}$  cup multiplied by 25.  

$$25 \times \frac{11}{12} = 25 \times 11 \times \frac{1}{12} = 275 \times \frac{1}{12} = \frac{275}{12}$$
12. Yes; Sample explanation: The width of all the books put together is  $12 \times \frac{5}{8} = 12 \times 5 \times \frac{1}{8} = 60 \times \frac{1}{8} = \frac{60}{8}$  inches, or  $7\frac{1}{2}$  inches. The shelf space is 8 inches, so the books will fit.

Sample drawing:

