

Multiply and Divide Fractions Assessment Answer Key

1. A
2. C
3. C
4. B
5. B
6. C
7. A
8. D
9. D
10. B
11. 8; 14; Sample explanation: To find out how many groups of 16 there are, 126 can be divided by 16. The answer is $126 \div 16 = 7$, with a remainder of 14. So there are 8 groups in all, and the last group has 14 teams.
12. $\frac{1}{4} \times 15 = \frac{15}{4}$ square inches; $\frac{3}{2} \times \frac{5}{2} = \frac{15}{4}$ square inches;
Sample explanation: The area of each $\frac{1}{2}$ -inch square is $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ square inch, and it takes 15 of the squares to fill the rectangle. The area of the rectangle also can be found by multiplying the width by the length, or $\frac{3}{2} \times \frac{5}{2}$.

13. $\frac{1}{20}$; $\frac{1}{4} \div 5 = \frac{1}{20}$; Sample drawing:

1 group

1 student			

14. 21 ; $7 \div \frac{1}{3} = 21$; Sample explanation: The number of lemons that Sarah needs is the number of $\frac{1}{3}$ cups of juice she needs to make 7 cups in all. It is the number that you need to multiply $\frac{1}{3}$ by to get 7, so it is equal to $7 \div \frac{1}{3}$.

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15. $\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$; Sample drawing:

cheese, spinach, pineapple	cheese, pineapple	cheese, pineapple
cheese		

16. $\frac{1}{15}$ pound; $\frac{1}{3} \div 5 = \frac{1}{15}$; Sample drawing:

$\frac{1}{3}$ pound of sugar

$\frac{1}{15}$ pound	 	
$\frac{1}{15}$ pound		
$\frac{1}{15}$ pound		
$\frac{1}{15}$ pound		
$\frac{1}{15}$ pound		