

Multiplying Fractions

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. Write this multiplication statement as repeated addition.

$$4 \times \frac{1}{4}$$

a. $\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$

c. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

b. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

d. 1

- _____ 2. Suppose you have 28 muffins. How many muffins are left after you give a friend $\frac{1}{4}$ of them?

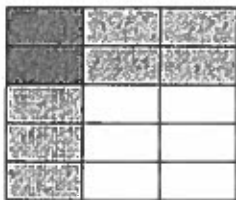
a. 56 muffins

b. 21 muffins

c. 7 muffins

d. 24 muffins

- _____ 3. What product can be represented by the darkest area in this model?



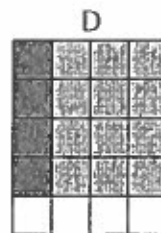
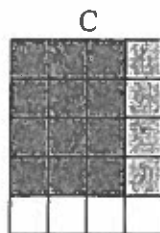
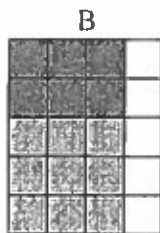
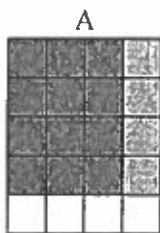
a. $\frac{5}{6} \times \frac{2}{3}$

b. $\frac{5}{6} \times \frac{3}{5}$

c. $\frac{2}{5} \times \frac{1}{3}$

d. $\frac{5}{6} \times \frac{2}{3}$

- _____ 4. Which diagram represents $\frac{1}{4}$ of $\frac{4}{5}$?



a. Diagram A

b. Diagram B

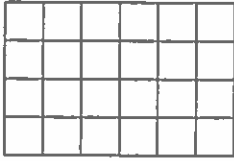
c. Diagram C

d. Diagram D

Name: _____

ID: A

___ 5. How many small squares in this rectangle should be shaded to represent $\frac{1}{3}$ of $\frac{1}{4}$?



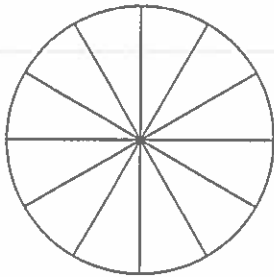
- a. 2 b. 12 c. 1 d. 4

___ 6. How many small squares in this rectangle should be shaded to represent $\frac{3}{4} \times \frac{2}{3}$?



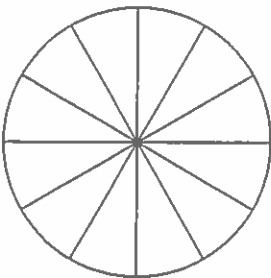
- a. 6 b. 18 c. 5 d. 15

___ 7. How many sectors in this circle should be shaded to represent $\frac{1}{2}$ of $\frac{5}{6}$?



- a. 7 b. 6 c. 5 d. 10

___ 8. How many sectors in this circle should be shaded to represent $\frac{1}{4} \times \frac{1}{3}$?



- a. 11 b. 2 c. 3 d. 1

___ 9. Find $\frac{2}{3}$ of $\frac{5}{8}$.

- a. $\frac{7}{11}$ b. $\frac{5}{12}$ c. $\frac{7}{24}$ d. $\frac{10}{11}$

10. Multiply. $\frac{4}{6} \times \frac{1}{11}$

a. $\frac{5}{66}$ b. $\frac{2}{33}$ c. $\frac{25}{33}$ d. $\frac{5}{17}$

11. The world's largest ruby crystal measures $12\frac{1}{4}$ cm \times $11\frac{1}{4}$ cm \times $13\frac{2}{5}$ cm.
Write the mixed numbers in these dimensions as improper fractions.

a. $\frac{49}{20} \times \frac{45}{20} \times \frac{67}{20}$ c. $\frac{49}{4} \times \frac{45}{4} \times \frac{67}{5}$
b. $\frac{67}{20} \times \frac{49}{20} \times \frac{45}{20}$ d. $\frac{67}{4} \times \frac{49}{4} \times \frac{45}{5}$

12. Two-fifths of Aika's stamp collection are European stamps.
One-half of her European stamps are from France.
What fraction of Aika's stamps are from France?

a. $\frac{4}{5}$ b. $\frac{1}{5}$ c. $\frac{1}{10}$ d. $\frac{3}{10}$

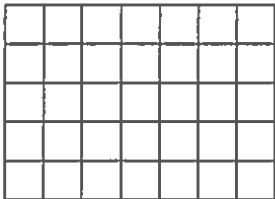
Short Answer

13. Write the multiplication equation represented by this number line.



14. Evaluate. $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4}$

15. Shade the rectangle to find this product. $\frac{2}{5} \times \frac{3}{7}$



16. Elena spent $\frac{2}{3}$ of $\frac{5}{8}$ of her allowance on new shoes.
What fraction of her total allowance did Elena have left?

Name: _____

ID: A

Problem

17. Mark has 28 candies, Kelsie has 64 candies, and Hessna has 28 candies. Each gives one-quarter of the candies to Luka.

- a) How many candies does Luka receive?
b) How many candies do Mark, Kelsie, and Hessna have left?

Show your work.

18. Josh has a bag of 42 marbles. He gives $\frac{2}{7}$ to Maribeth and $\frac{1}{3}$ to Halla.

- a) How many marbles does each girl receive?
b) How many marbles does Josh have left?

Show your work.

19. Replace \square with a whole number to make the equation true.

$$\frac{\square}{3} \times \frac{1}{4} = \frac{1}{6}$$

20. Write a multiplication statement for $\frac{1}{4}$ of $\frac{1}{3}$ of $\frac{1}{2}$ of \$72.

Then find the amount of money.

Science Lab - Density

Name: _____

Calculating Densities

Item	Mass	Volume	Density
Paper Clip			
Water			
Oil			
Clay			
Sour Key			
Push Pin			
Penny			
Mystery Item			

