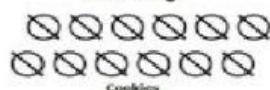
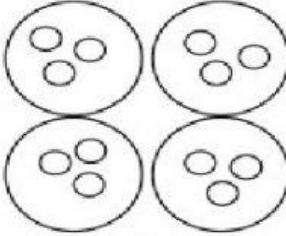


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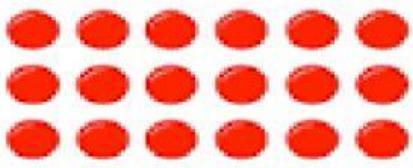
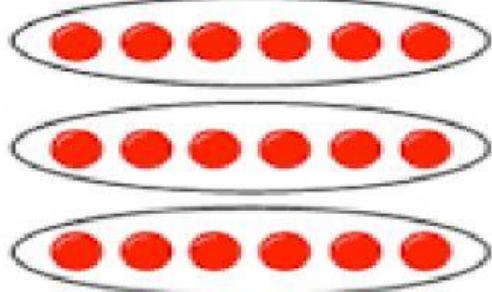
Just the Facts: Division and Multiplication Made Easy

Did you know that multiplication is the opposite of division, and division is the opposite of multiplication? Well, it is true. This means that if you know a multiplication fact, you know a division fact, and vice-versa. In fact, if you know one multiplication fact, such as $3 \times 4 = 12$, you actually know four facts, two multiplication and two division ones. You can see this in the model below that shows a fact family and division diagrams.

Modeling Division

Drawing	Fact Family
 	$12 \div 4 = 3$ $12 \div 3 = 4$ $3 \times 4 = 12$ $4 \times 3 = 12$

Now, look at this model. What are the four facts in this fact family?

	
<p>factor factor product</p> $3 \times 6 = 18$ <p>number of groups number in each group number in all</p>	<p>dividend divisor quotient</p> $18 \div 3 = 6$ <p>number in all number of groups number in each group</p>

Now, practice completing some fact families.

$$1) 8 \times 6 = 48$$

$$6 \times \underline{\quad} = 48$$

$$48 \div \underline{\quad} = 8$$

$$\underline{\quad} \div 8 =$$

$$2) 19 \times 5 = 95$$

$$5 \times \underline{\quad} = 95$$

$$95 \div \underline{\quad} = 5$$

$$\underline{\quad} \div 5 =$$



Performing division in word problems is easy if you remember to use your knowledge of fact families. Solve the following problems.

- 3) John made five rows of cookies with four cookies in each row. How many cookies did he have in all?

- 4) He decided to make four rows instead. How many cookies should he place in each row?

- 5) Five of his friends come over and he wants to share his cookies with them. How many cookies can he give to each friend?

- 6) One friend leaves so only four friends are left. How many cookies can he give to each friend now?