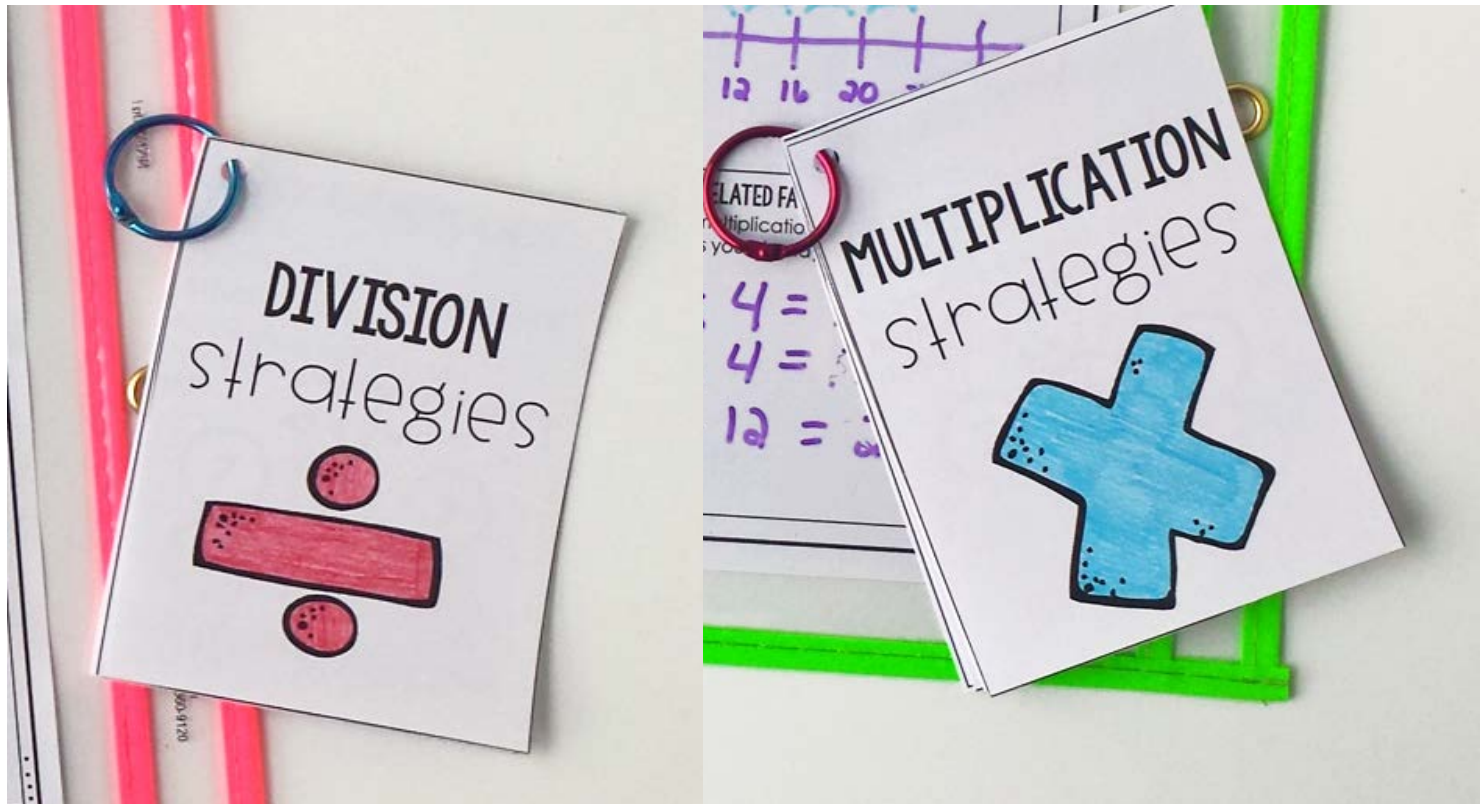
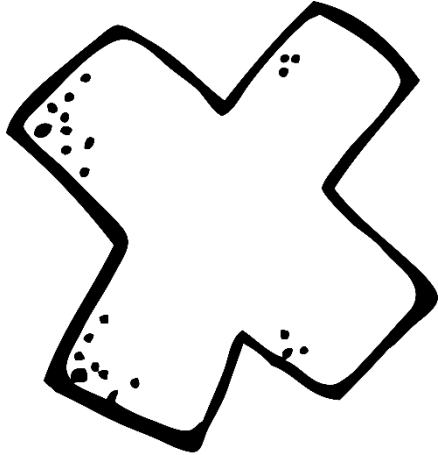


MULTIPLICATION & DIVISION STRATEGY RINGS

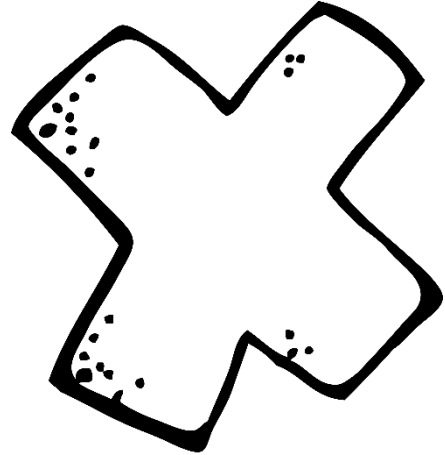


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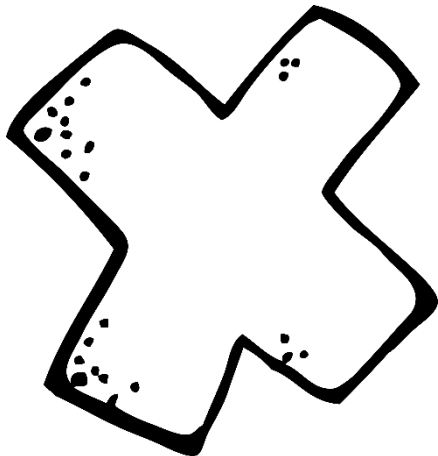
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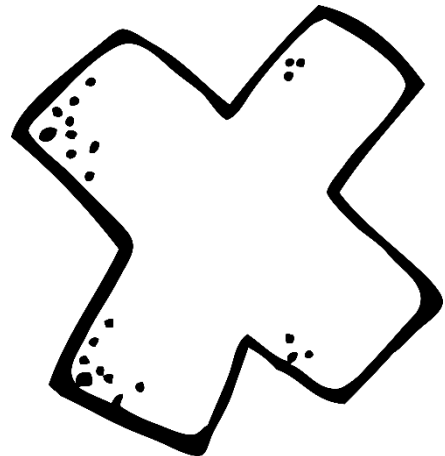
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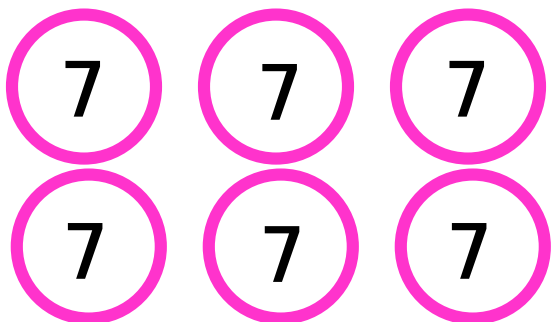


equal groups

Find the product by making equal groups.

To be more efficient, use numbers instead of tally marks or dots.

$$6 \times 7 = ?$$



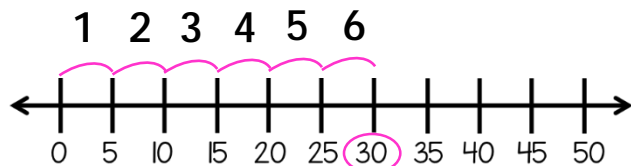
6 groups of 7 = 42, so
 $6 \times 7 = 42$

skip count

Find the product by skip counting.

You can do this in your head or on a number line.

$$6 \times 5 = ?$$



I skip counted by 5s 6 times to get 30.

$$6 \times 5 = 30$$

repeated addition

Find the product by repeatedly adding the second factor as many times as the first factor tells you.

$$8 \times 9 = ?$$

$$9 + 9 + 9 + 9 + 9 + 9 + 9 + 9 =$$

$$18 + 18 + 18 + 18 =$$

$$36 + 36 = 72$$

$$8 \times 9 = 72$$

use related facts

Find the product of a multiplication problem by using the multiplication problems you already know.

$$7 \times 8 = ?$$

I am going to decompose, or break, the 7 into 5 and 2.

$$5 \times 8 = 40$$

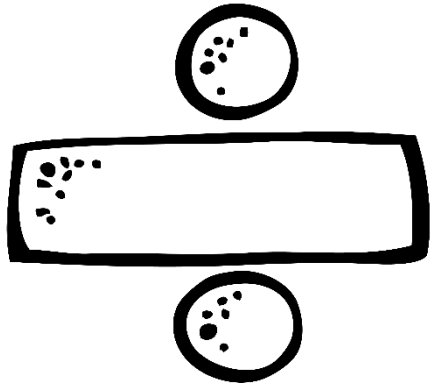
$$2 \times 8 = 16$$

Then, I will add the two products together to determine the total product.

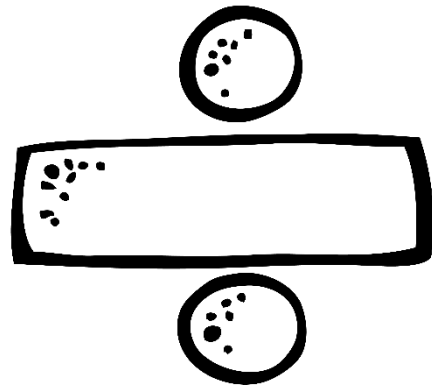
$$40 + 16 = 56$$

$$7 \times 8 = 56$$

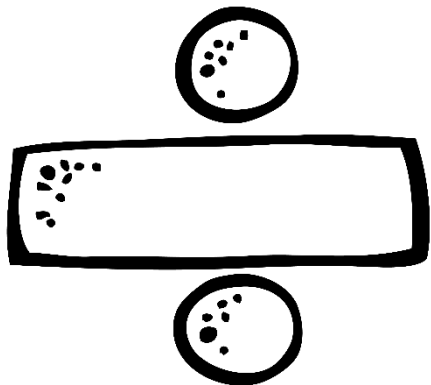
DIVISION
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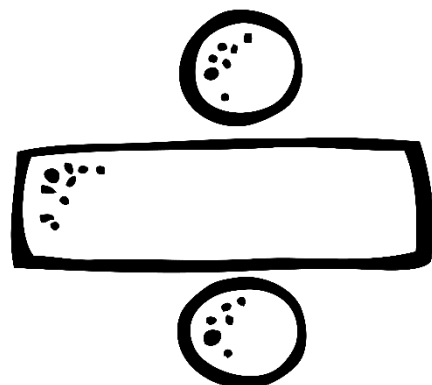
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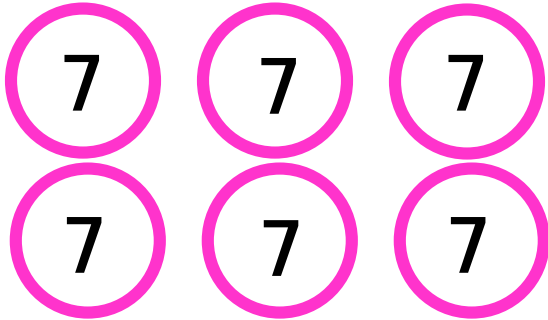


equal groups

Find the quotient by making equal groups.

To be more efficient, use numbers instead of tally marks or dots.

$$42 \div 6 = ?$$



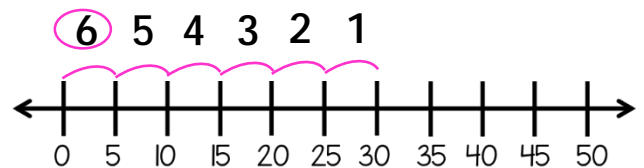
42 divided into 6 groups is 7 in each group, so $42 \div 6 = 7$

skip count in reverse

Find the quotient by skip counting backwards.

Start with your dividend, and count back by your divisor to zero. Count how many times it takes to skip count backwards.

$$30 \div 5 = ?$$



$$30 \div 5 = 6$$

repeated subtraction

Find the quotient by repeatedly subtracting the divisor from the dividend. The quotient is how many times it took to subtract.

$$36 \div 9 = ?$$

$$\begin{array}{r} 36 \\ -9 \\ \hline 27 \end{array} \quad \begin{array}{r} 27 \\ -9 \\ \hline 18 \end{array} \quad \begin{array}{r} 18 \\ -9 \\ \hline 9 \end{array} \quad \begin{array}{r} 9 \\ -9 \\ \hline 0 \end{array}$$

Since I was able to subtract four nines, the quotient is four.

$$36 \div 9 = 4$$

use multiplication

Find the quotient by using the related multiplication problem.

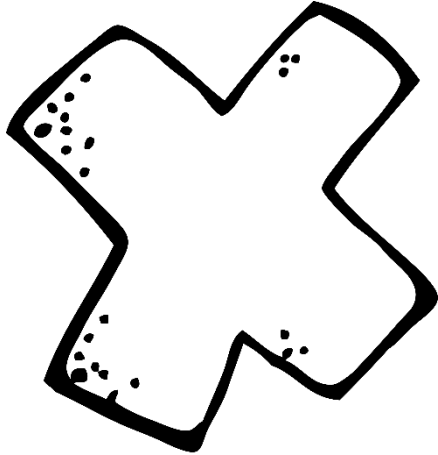
$$56 \div 7 = ?$$

I need to think of a factor that produces 56 when multiplied by 7.

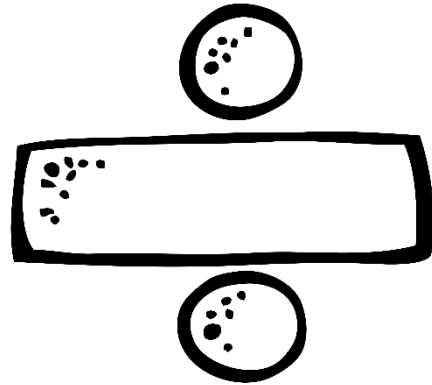
I know that $7 \times 8 = 56$, so $56 \div 7$ is 8

$$56 \div 7 = 8$$

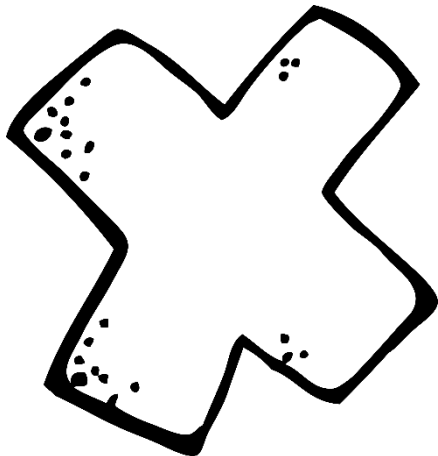
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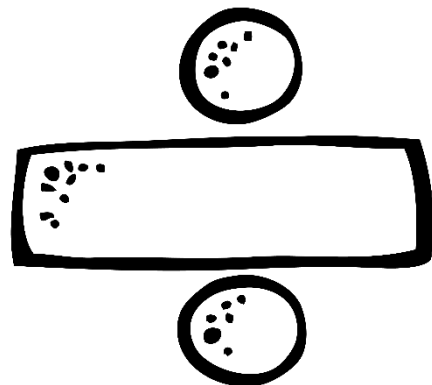
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