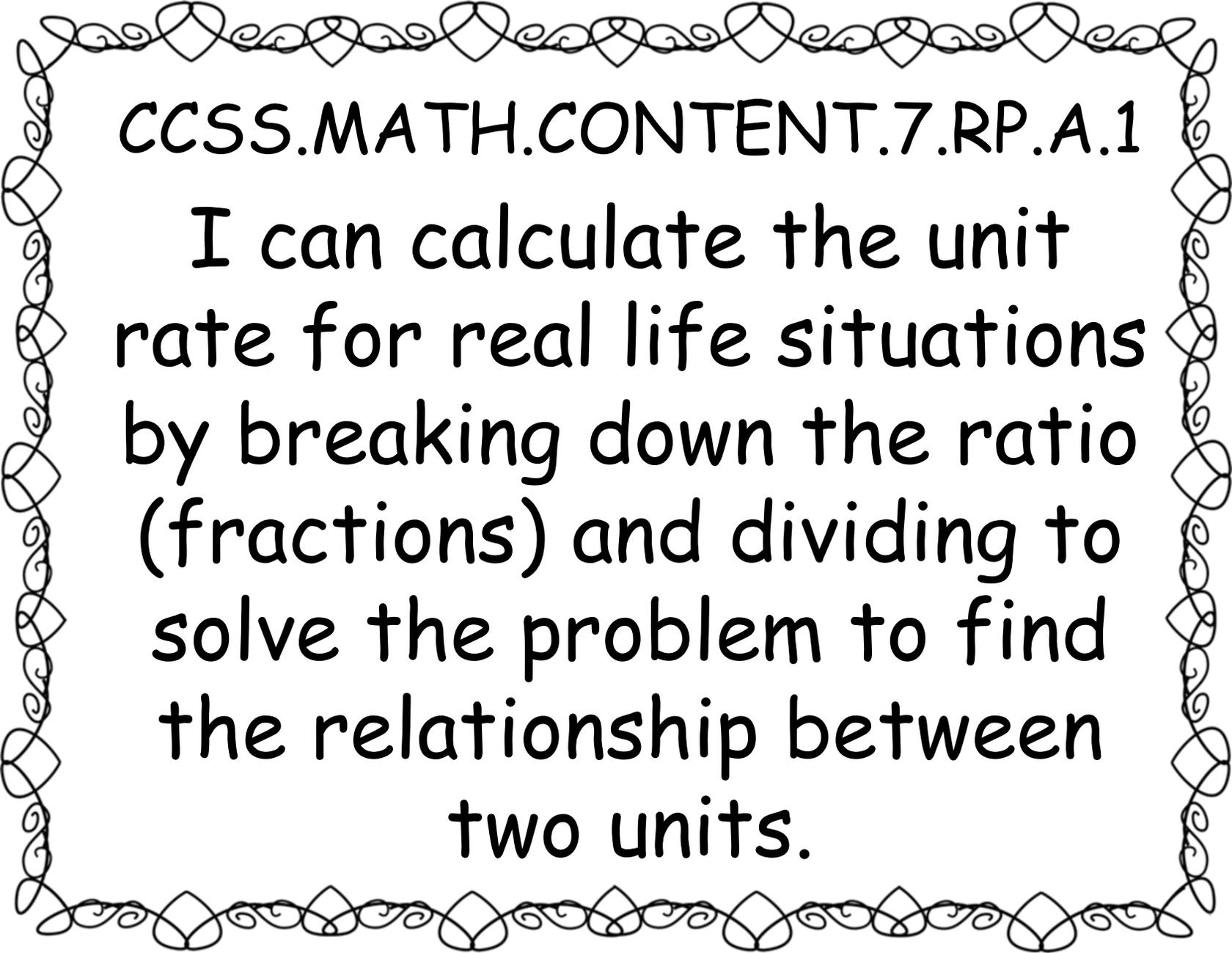
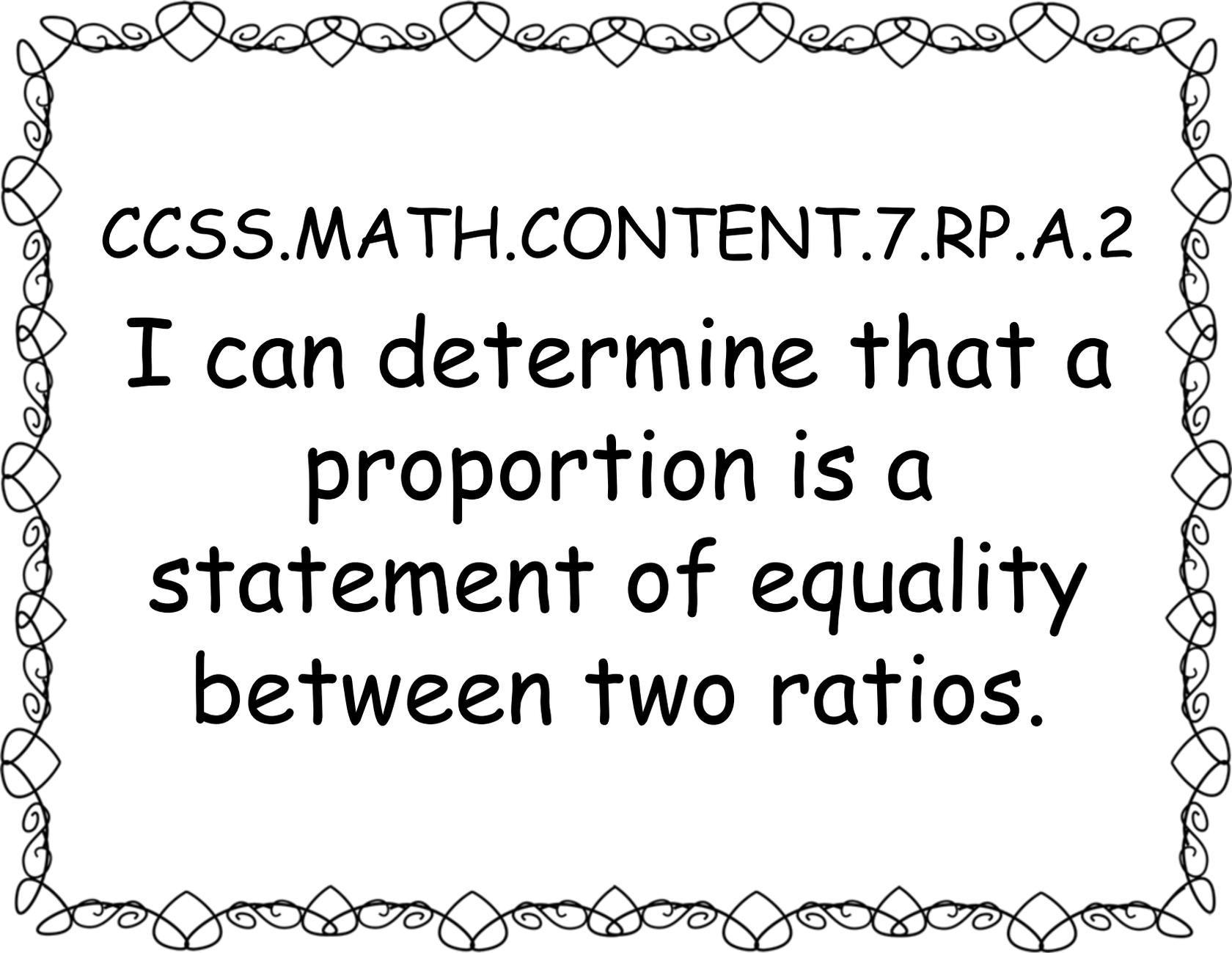


7th Grade Math
Ratios & Proportional
Relationships
CCSS "I Can"
Statements



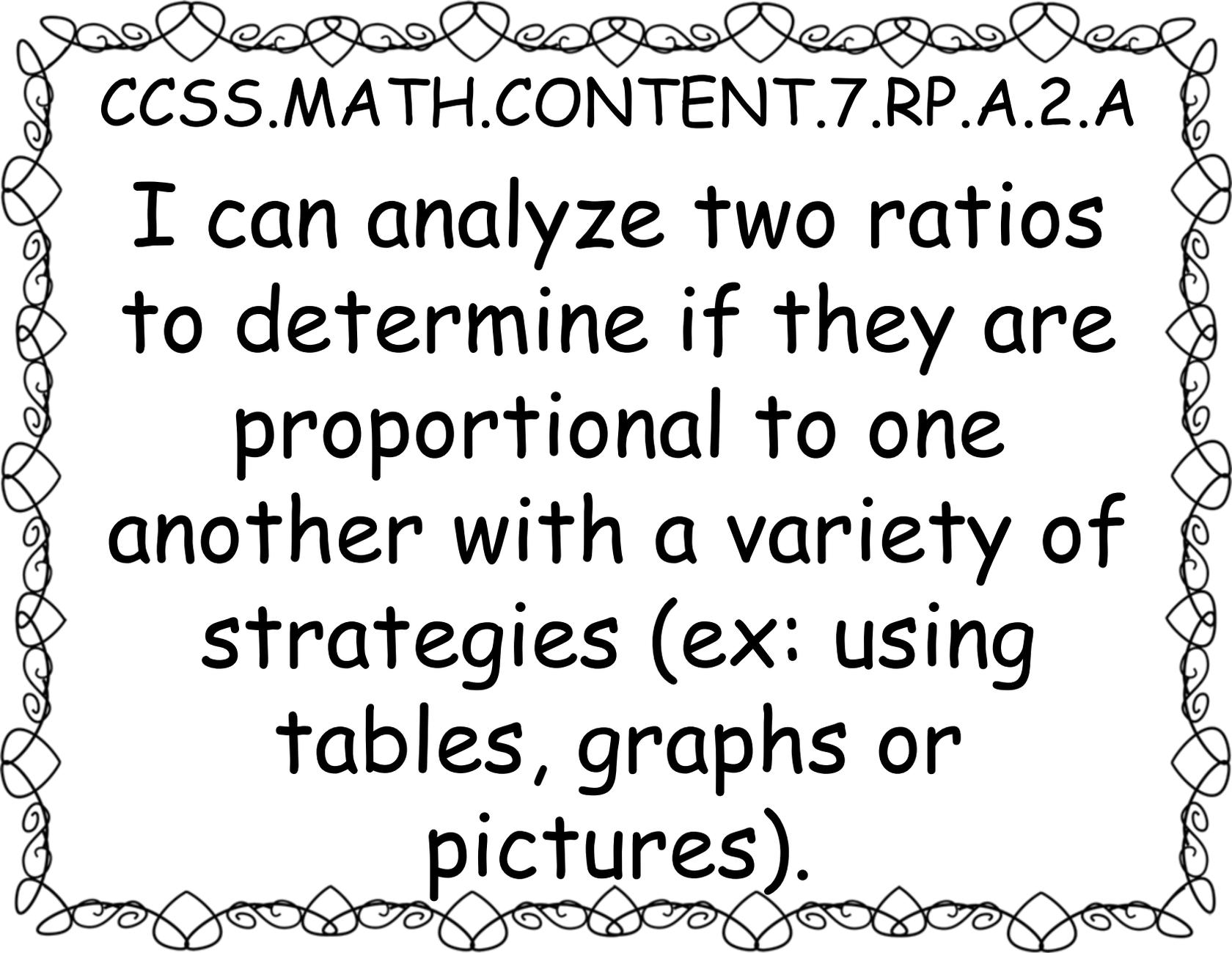
CCSS.MATH.CONTENT.7.RP.A.1

I can calculate the unit rate for real life situations by breaking down the ratio (fractions) and dividing to solve the problem to find the relationship between two units.



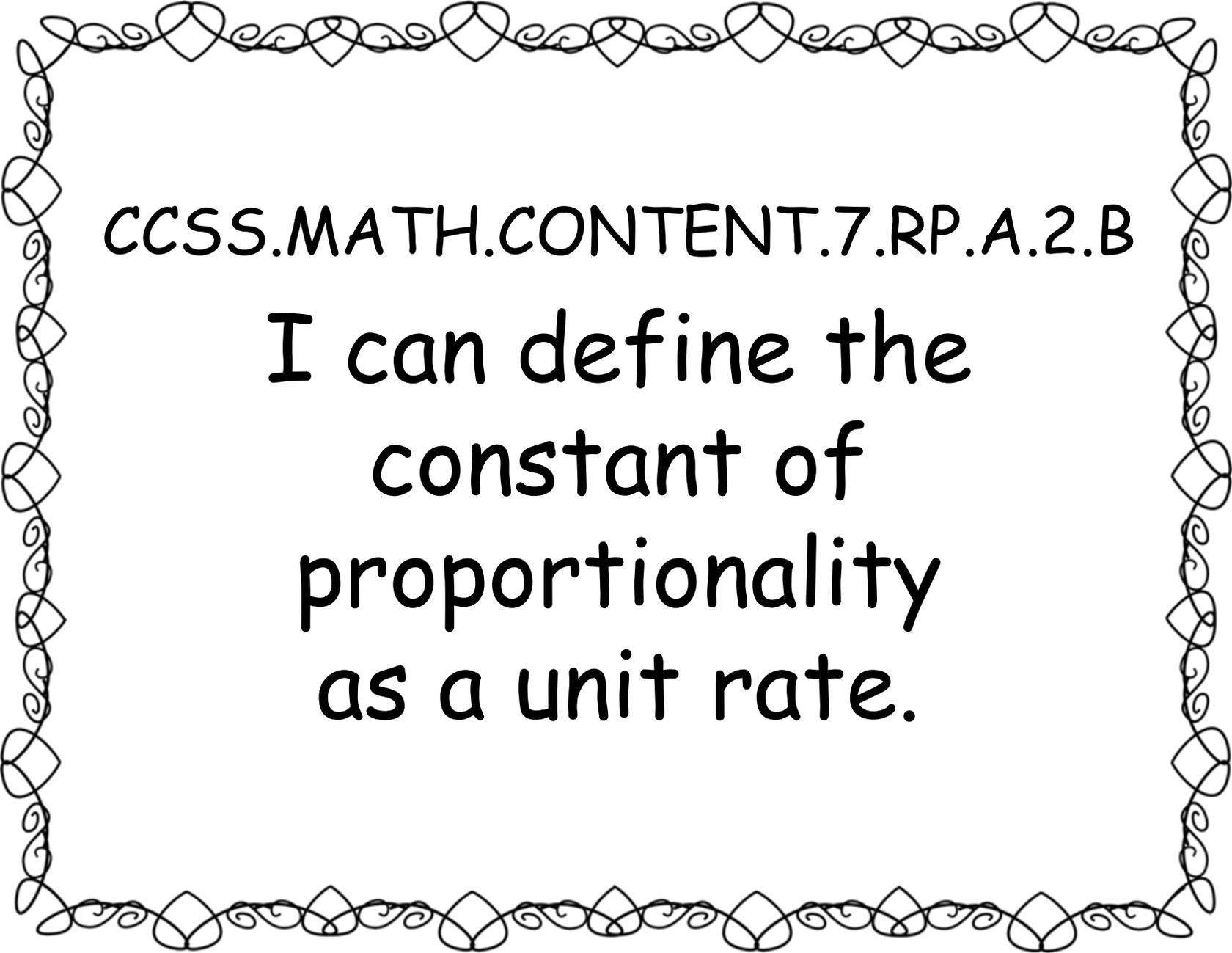
CCSS.MATH.CONTENT.7.RP.A.2

I can determine that a
proportion is a
statement of equality
between two ratios.



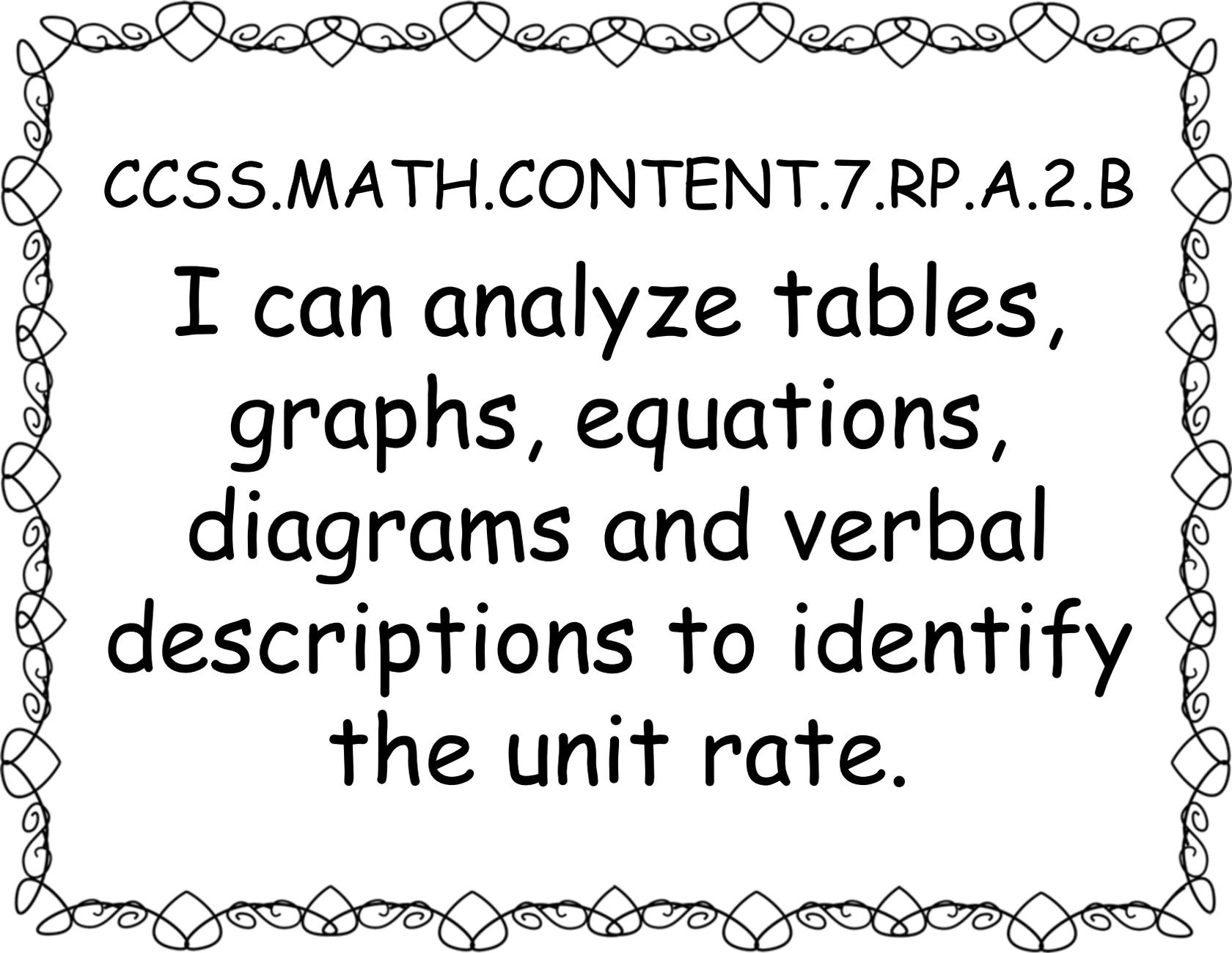
CCSS.MATH.CONTENT.7.RP.A.2.A

I can analyze two ratios to determine if they are proportional to one another with a variety of strategies (ex: using tables, graphs or pictures).



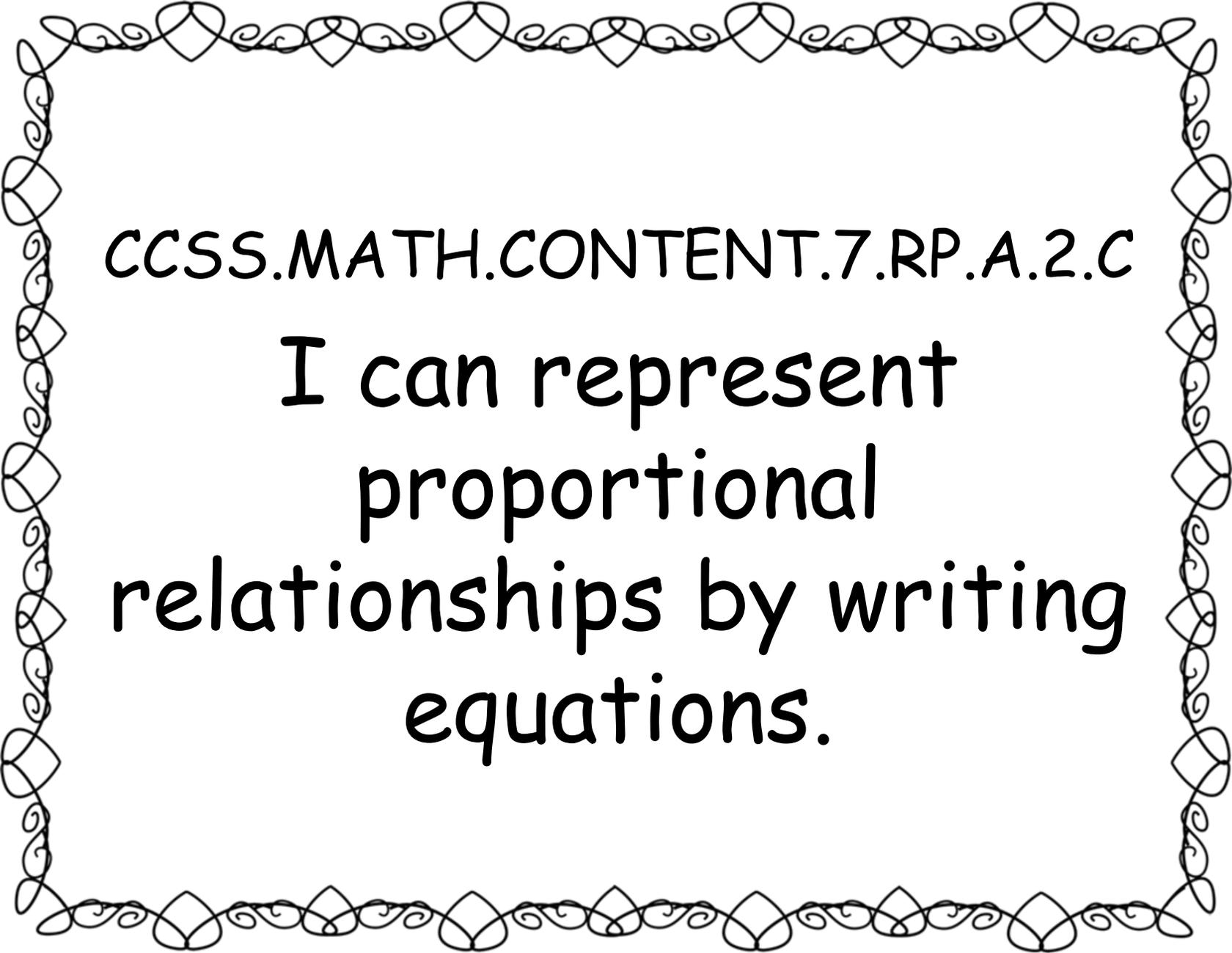
CCSS.MATH.CONTENT.7.RP.A.2.B

I can define the
constant of
proportionality
as a unit rate.



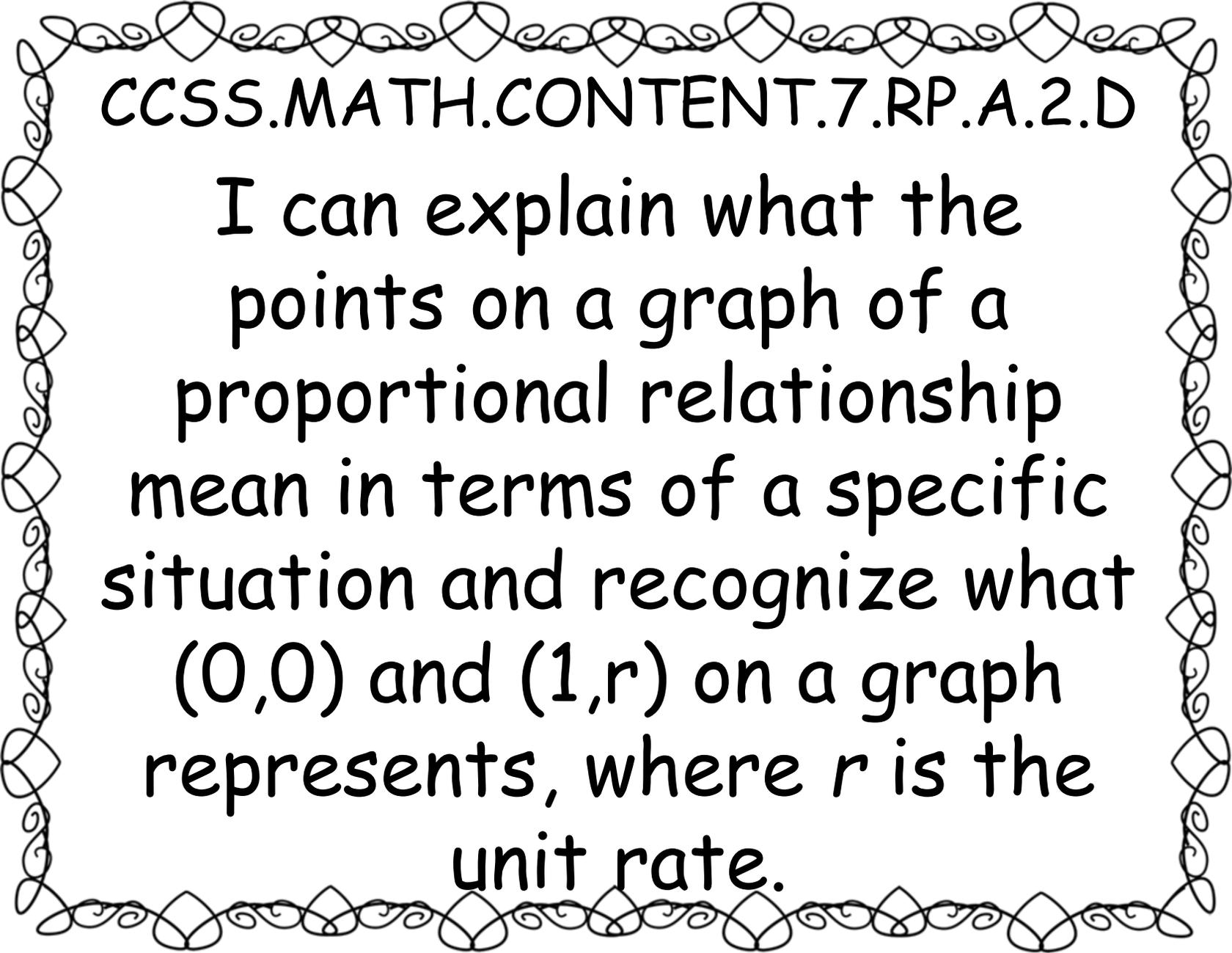
CCSS.MATH.CONTENT.7.RP.A.2.B

I can analyze tables,
graphs, equations,
diagrams and verbal
descriptions to identify
the unit rate.



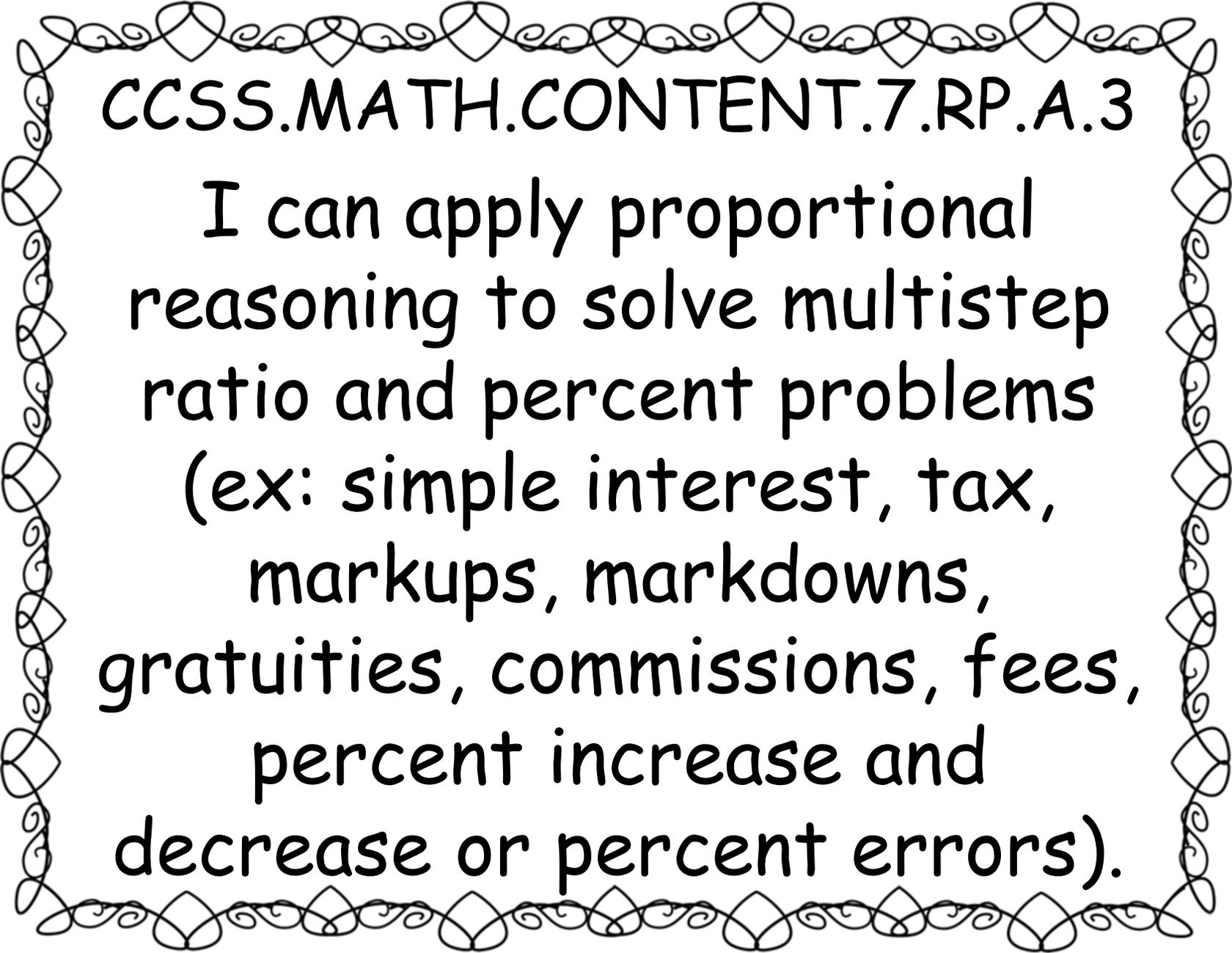
CCSS.MATH.CONTENT.7.RP.A.2.C

I can represent
proportional
relationships by writing
equations.



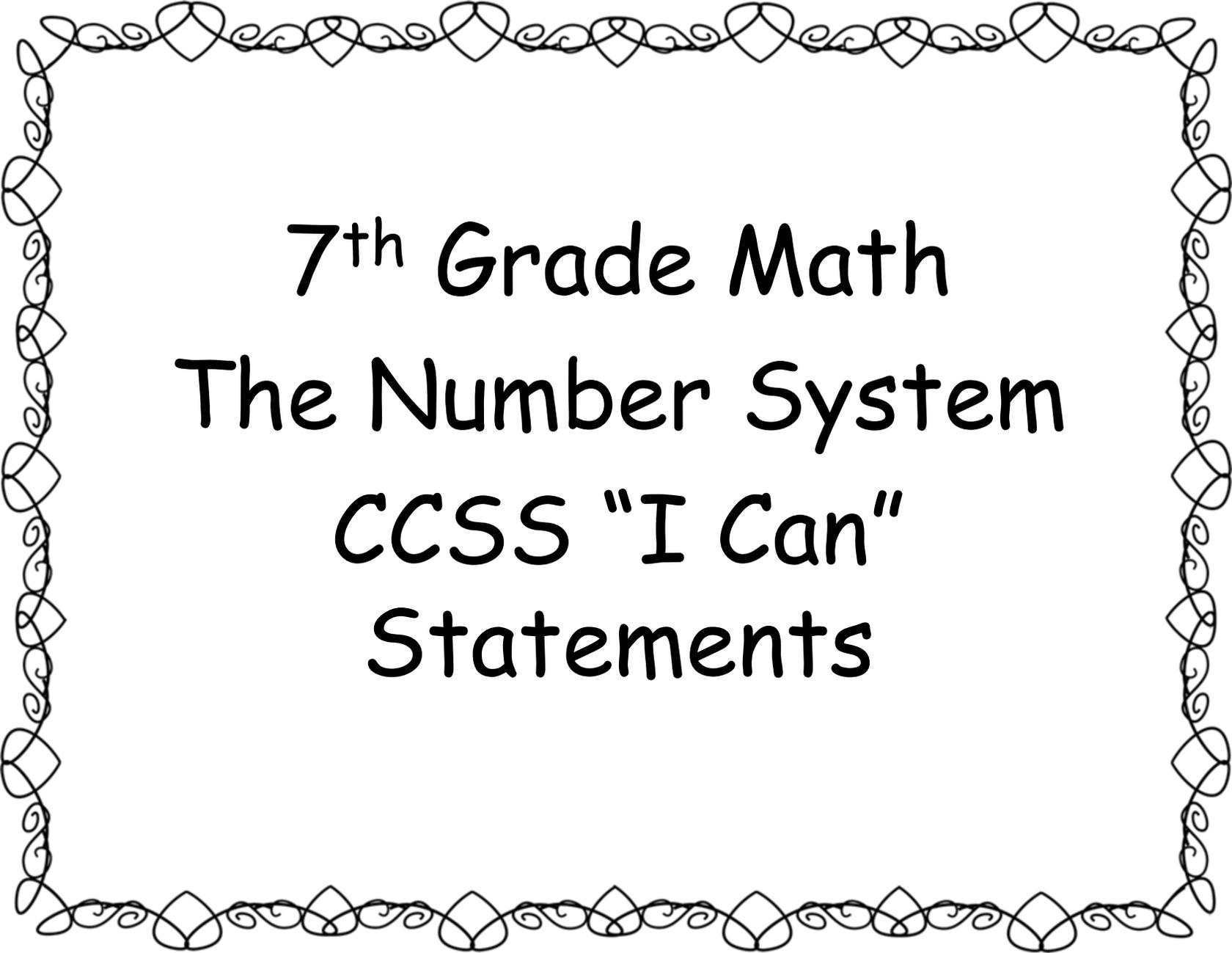
CCSS.MATH.CONTENT.7.RP.A.2.D

I can explain what the points on a graph of a proportional relationship mean in terms of a specific situation and recognize what $(0,0)$ and $(1,r)$ on a graph represents, where r is the unit rate.

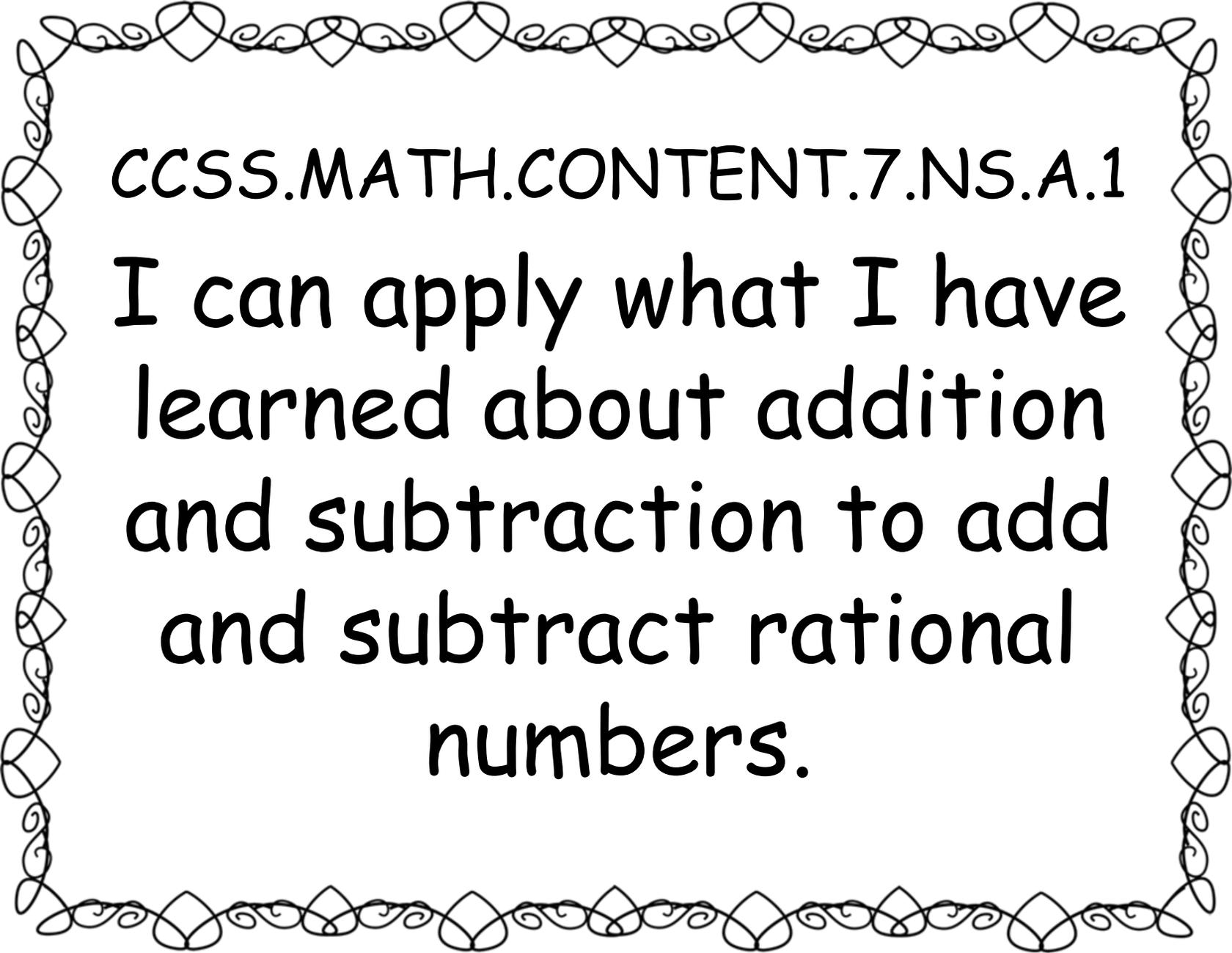


CCSS.MATH.CONTENT.7.RP.A.3

I can apply proportional reasoning to solve multistep ratio and percent problems (ex: simple interest, tax, markups, markdowns, gratuities, commissions, fees, percent increase and decrease or percent errors).

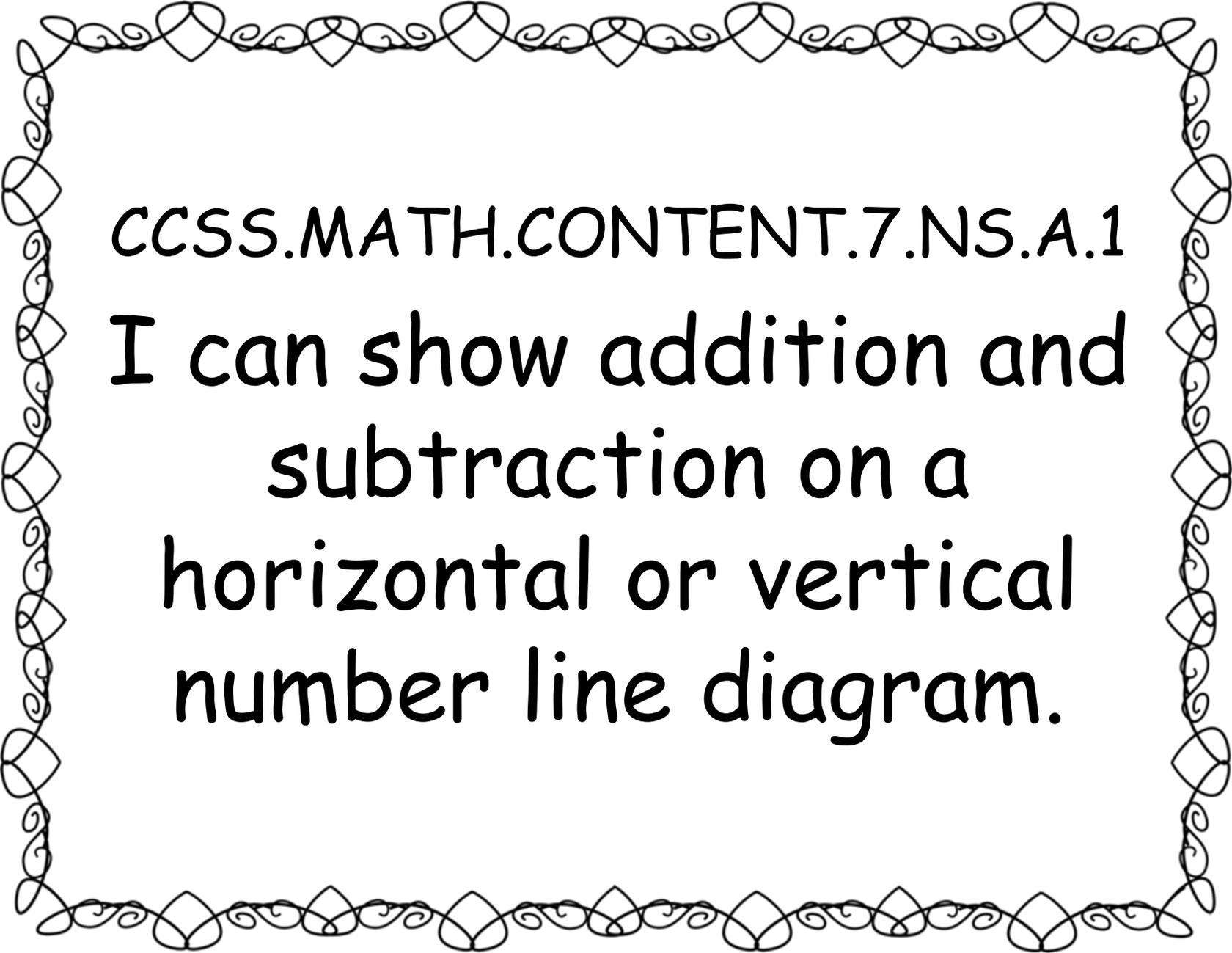


7th Grade Math
The Number System
CCSS "I Can"
Statements



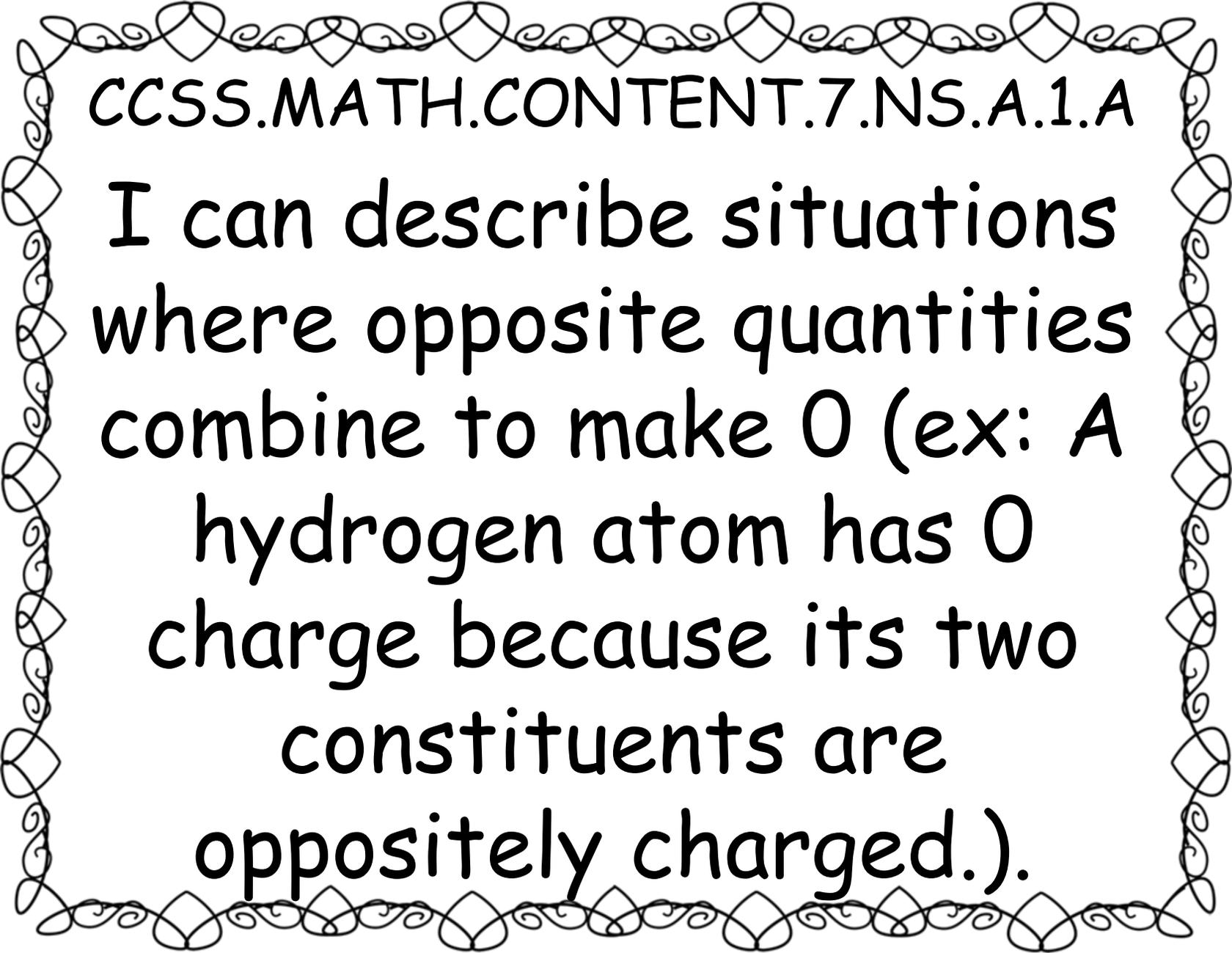
CCSS.MATH.CONTENT.7.NS.A.1

I can apply what I have
learned about addition
and subtraction to add
and subtract rational
numbers.



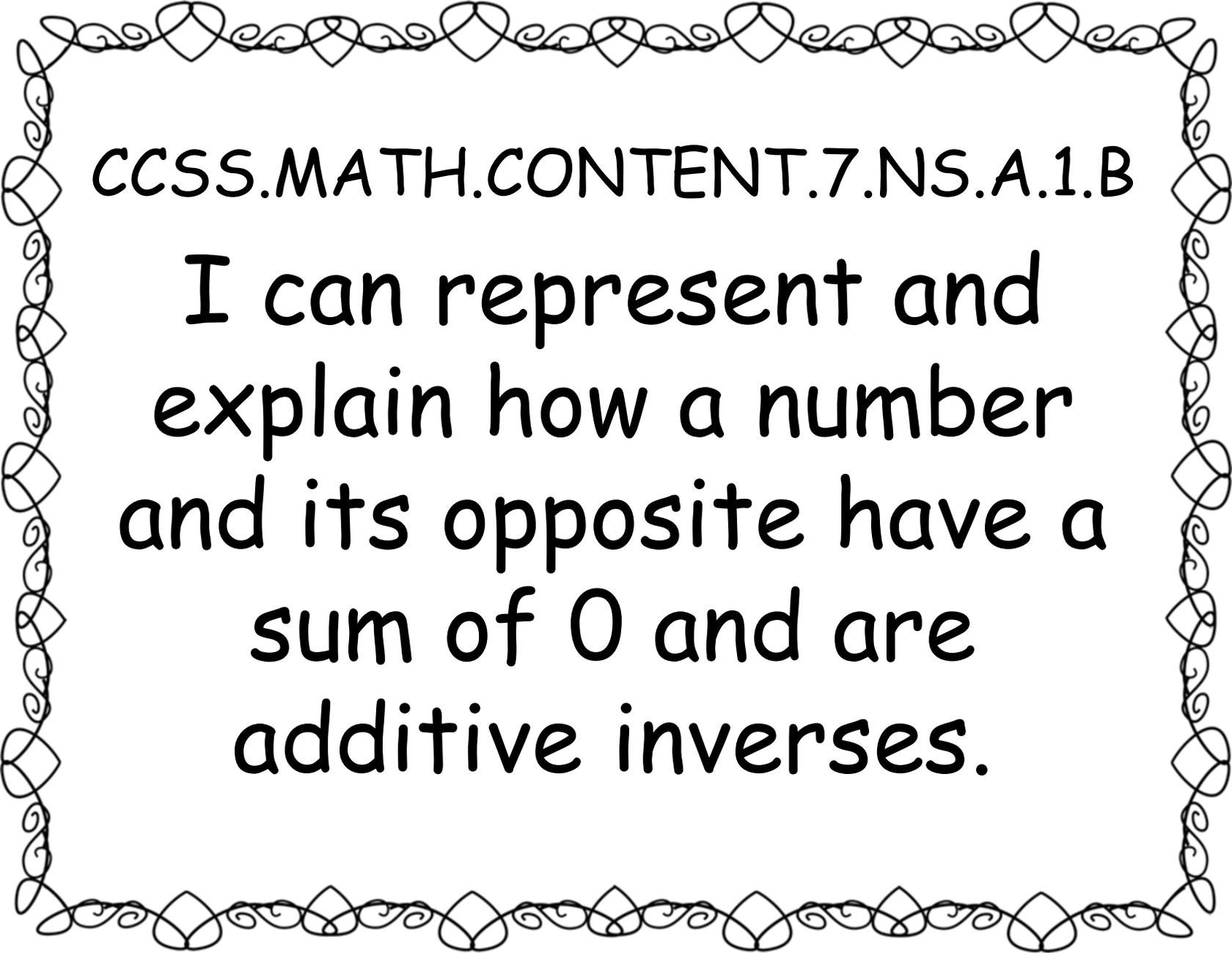
CCSS.MATH.CONTENT.7.NS.A.1

I can show addition and subtraction on a horizontal or vertical number line diagram.



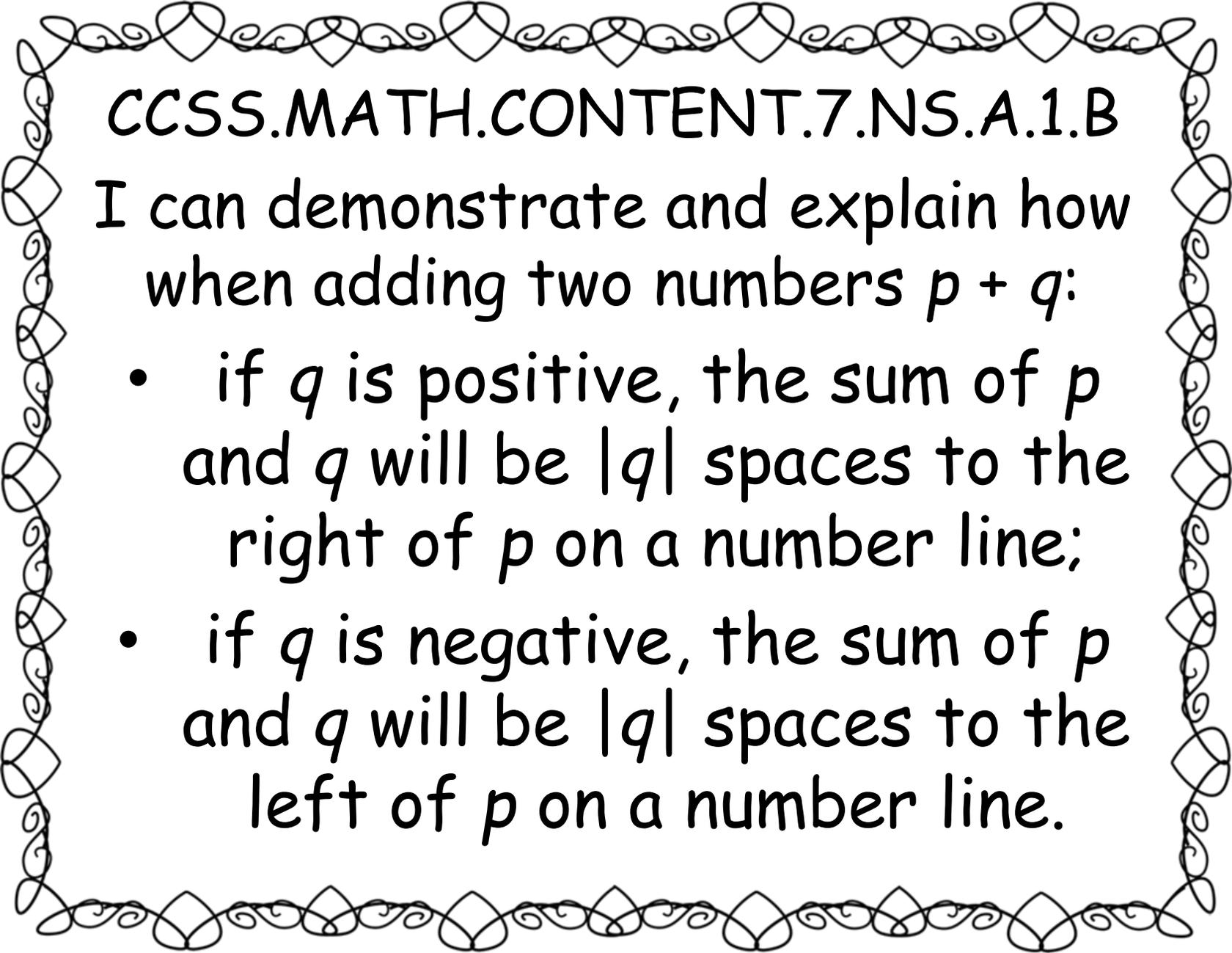
CCSS.MATH.CONTENT.7.NS.A.1.A

I can describe situations where opposite quantities combine to make 0 (ex: A hydrogen atom has 0 charge because its two constituents are oppositely charged.).



CCSS.MATH.CONTENT.7.NS.A.1.B

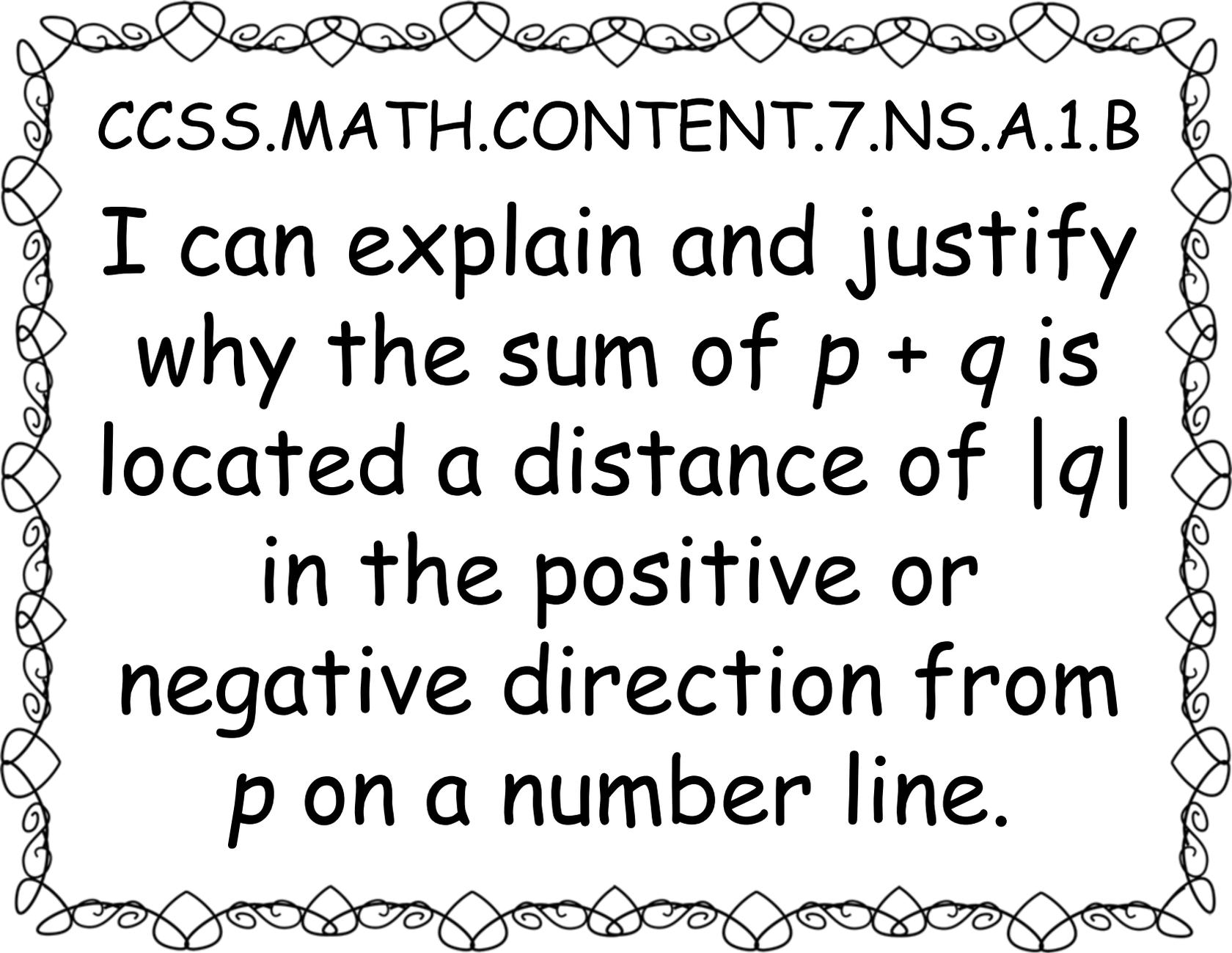
I can represent and explain how a number and its opposite have a sum of 0 and are additive inverses.



CCSS.MATH.CONTENT.7.NS.A.1.B

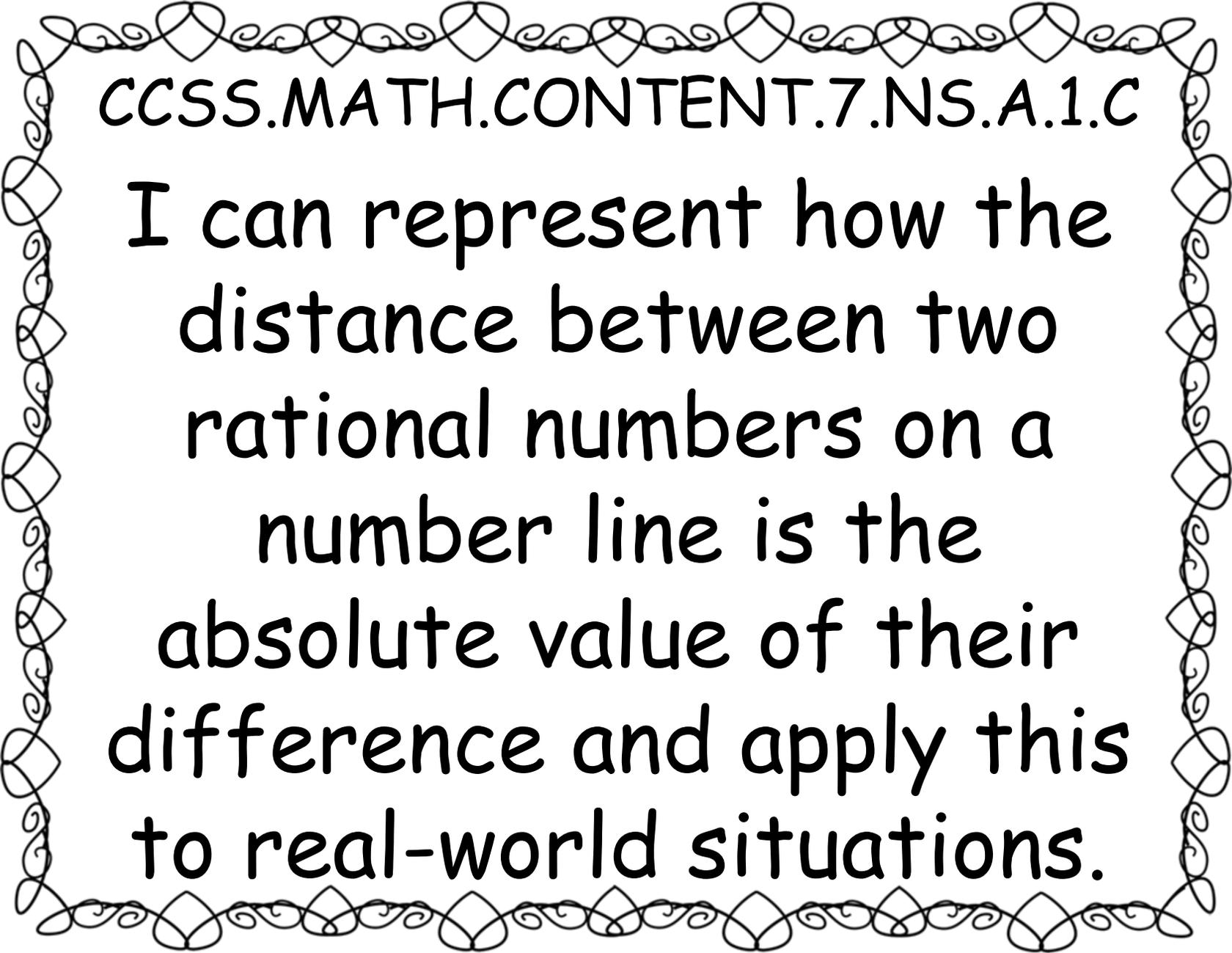
I can demonstrate and explain how when adding two numbers $p + q$:

- if q is positive, the sum of p and q will be $|q|$ spaces to the right of p on a number line;
- if q is negative, the sum of p and q will be $|q|$ spaces to the left of p on a number line.



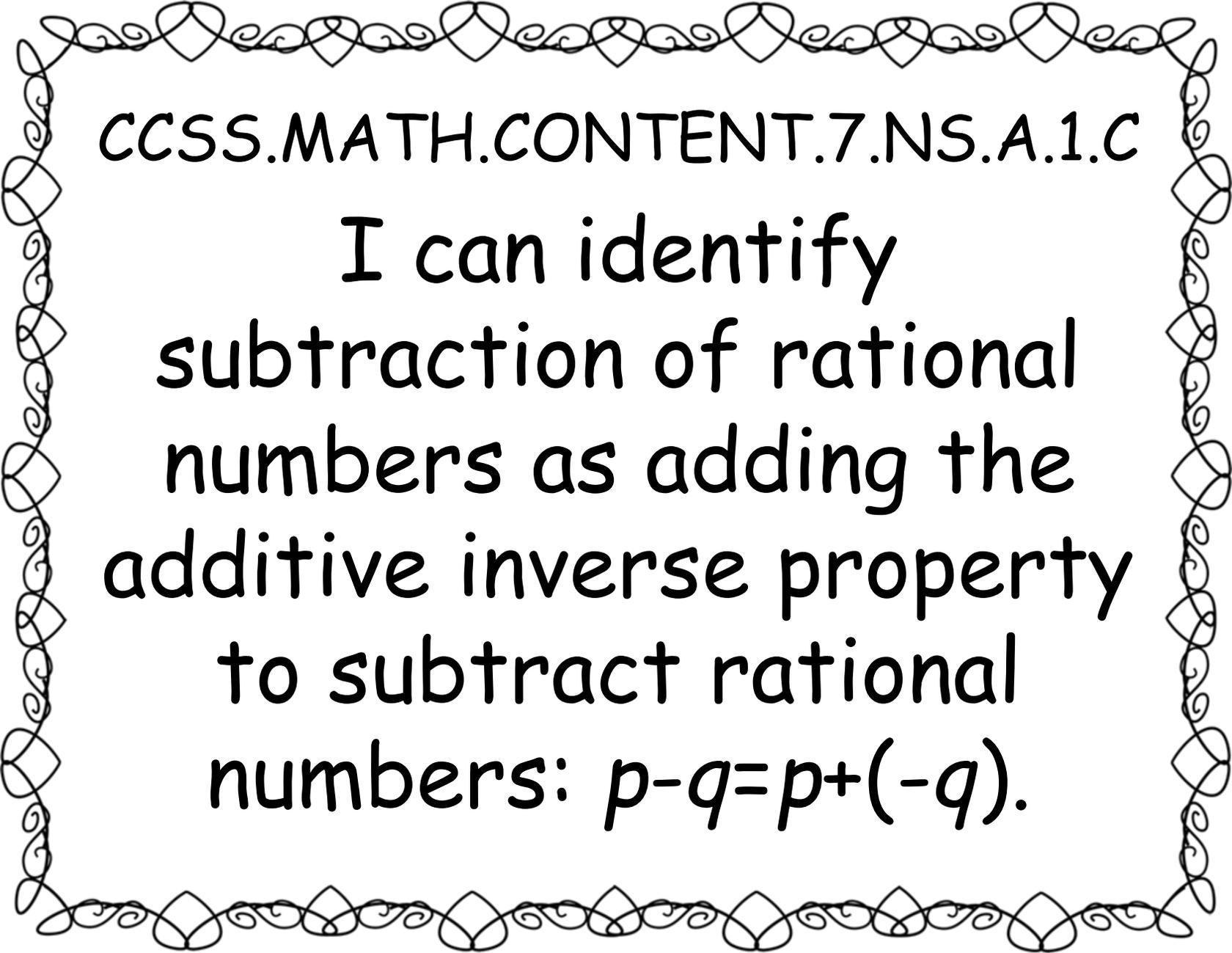
CCSS.MATH.CONTENT.7.NS.A.1.B

I can explain and justify
why the sum of $p + q$ is
located a distance of $|q|$
in the positive or
negative direction from
 p on a number line.



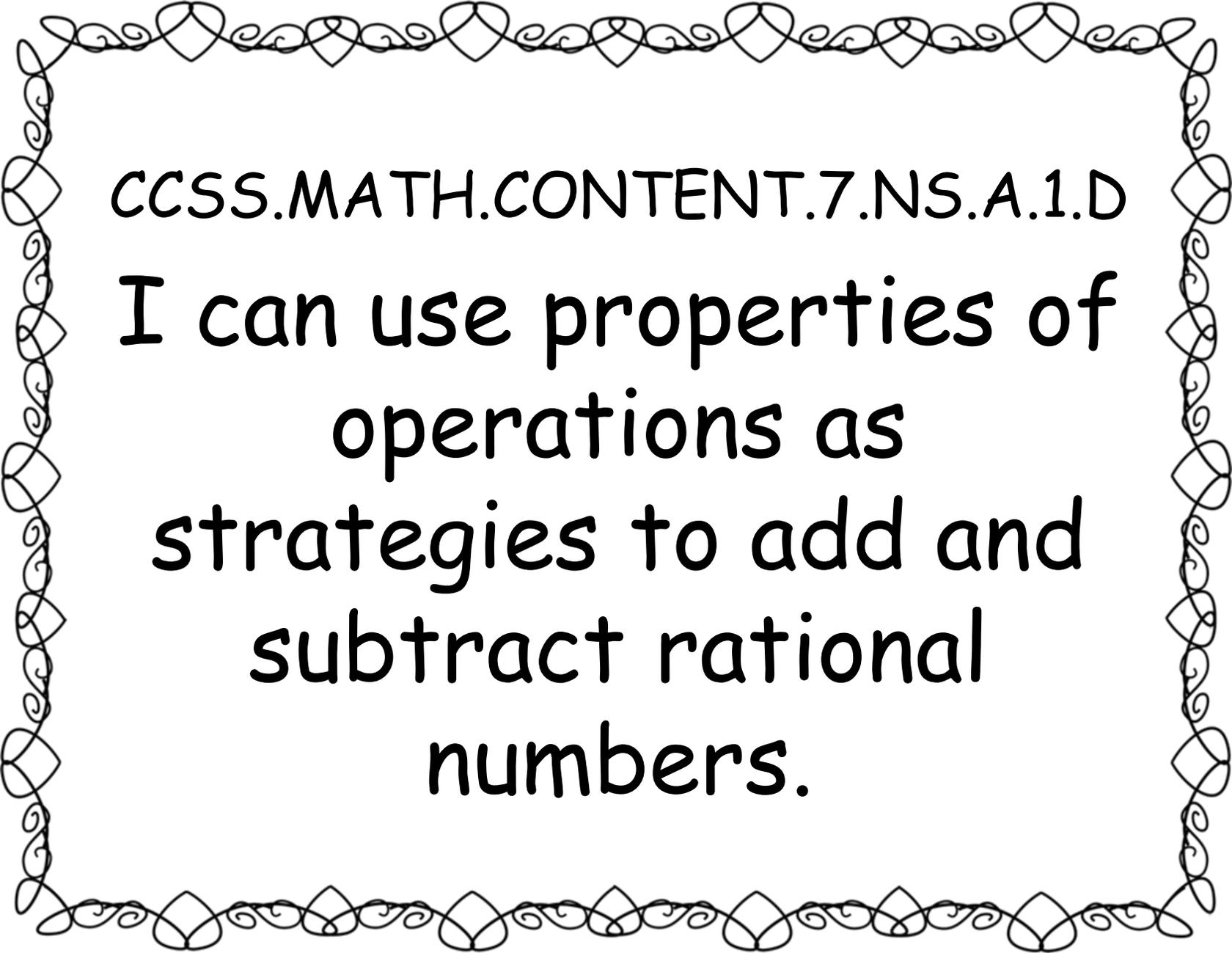
CCSS.MATH.CONTENT.7.NS.A.1.C

I can represent how the distance between two rational numbers on a number line is the absolute value of their difference and apply this to real-world situations.



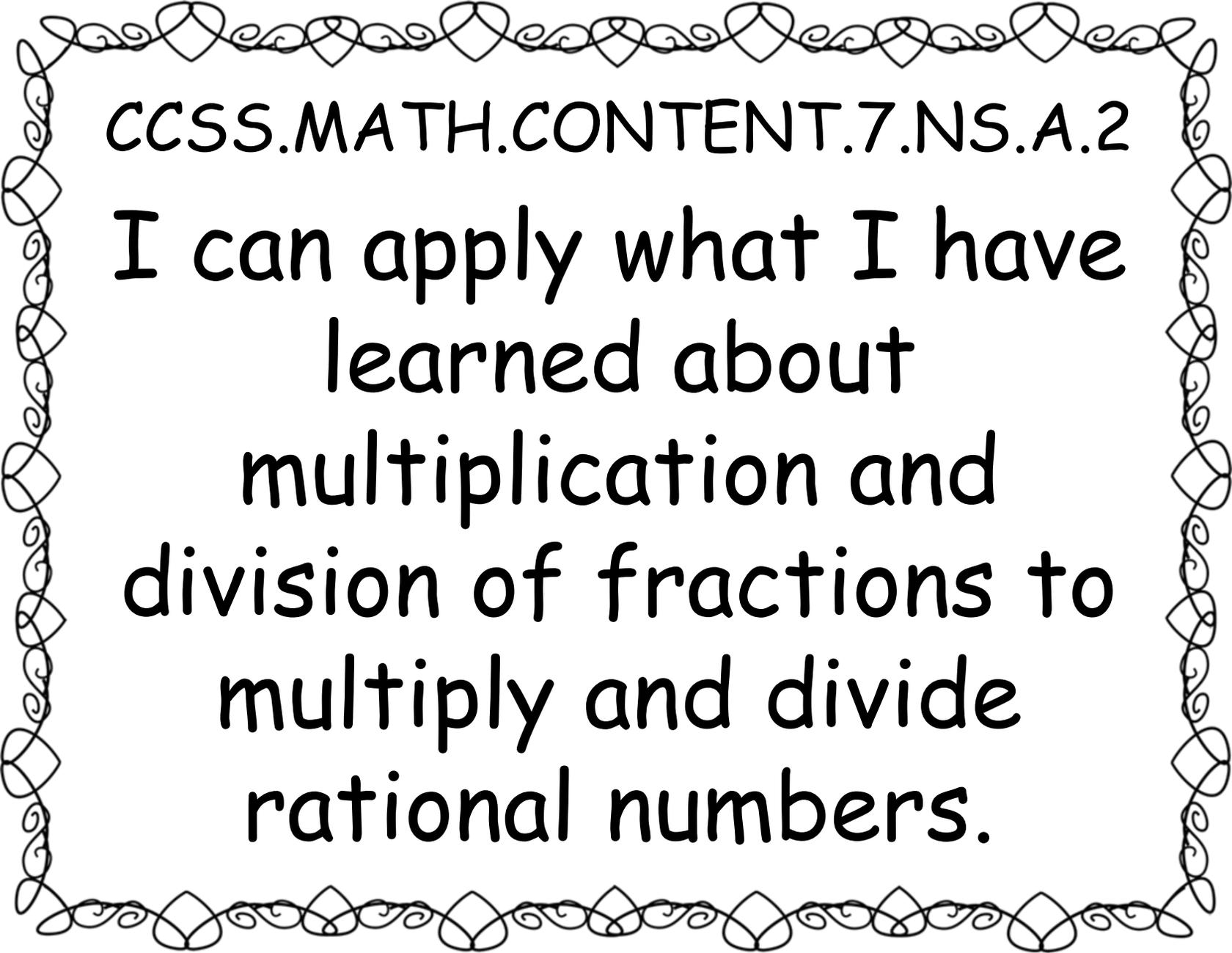
CCSS.MATH.CONTENT.7.NS.A.1.C

I can identify
subtraction of rational
numbers as adding the
additive inverse property
to subtract rational
numbers: $p - q = p + (-q)$.



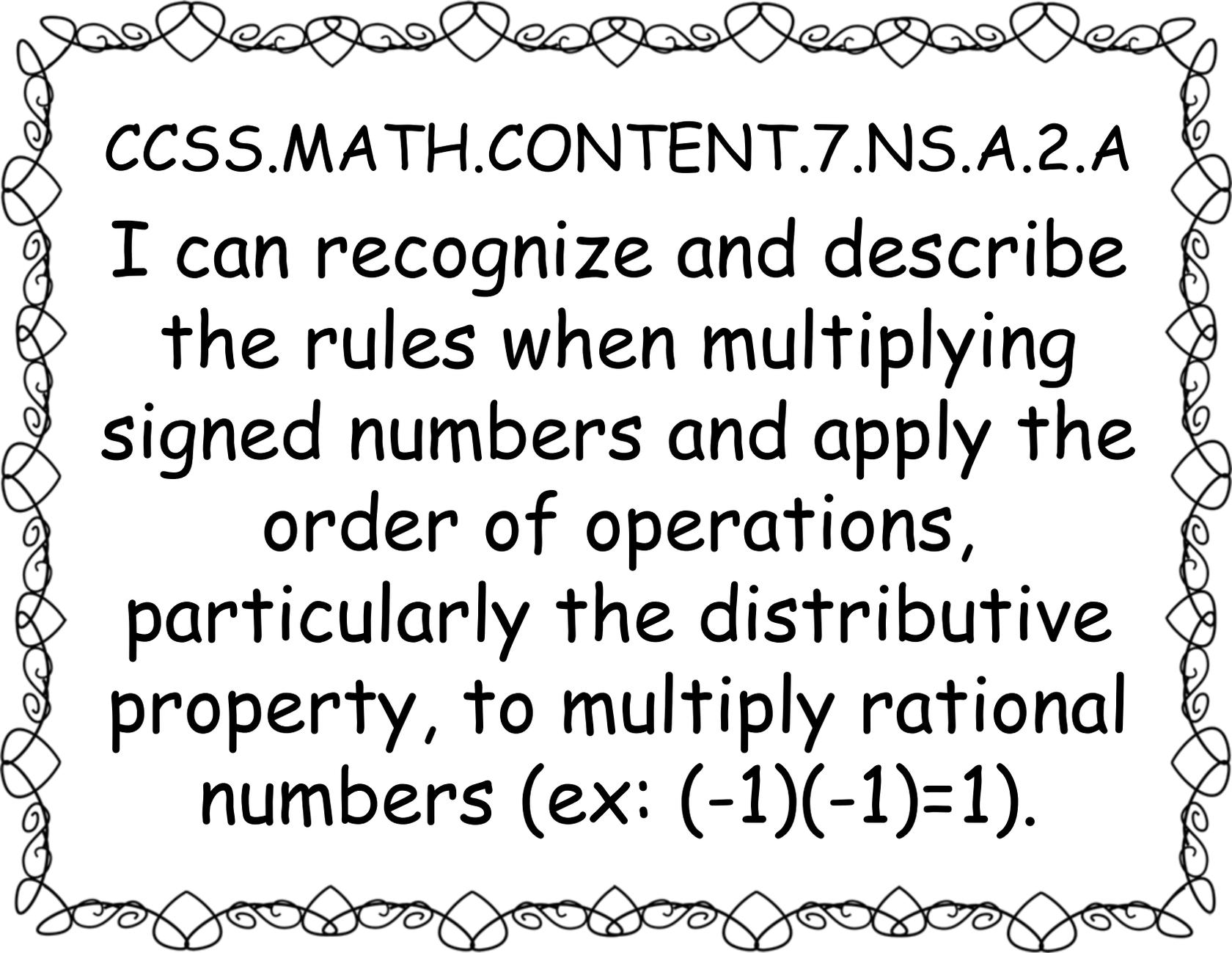
CCSS.MATH.CONTENT.7.NS.A.1.D

I can use properties of
operations as
strategies to add and
subtract rational
numbers.



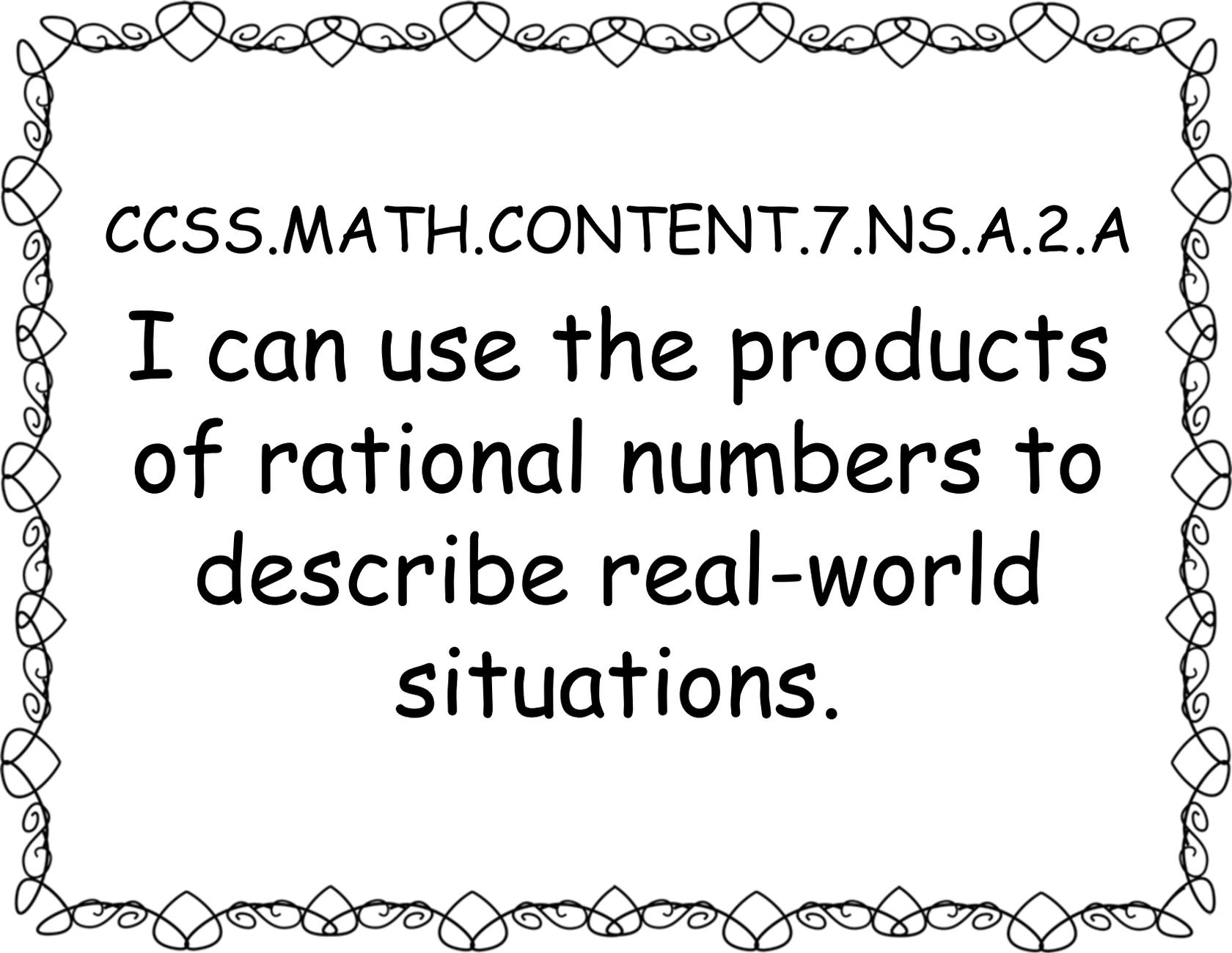
CCSS.MATH.CONTENT.7.NS.A.2

I can apply what I have
learned about
multiplication and
division of fractions to
multiply and divide
rational numbers.



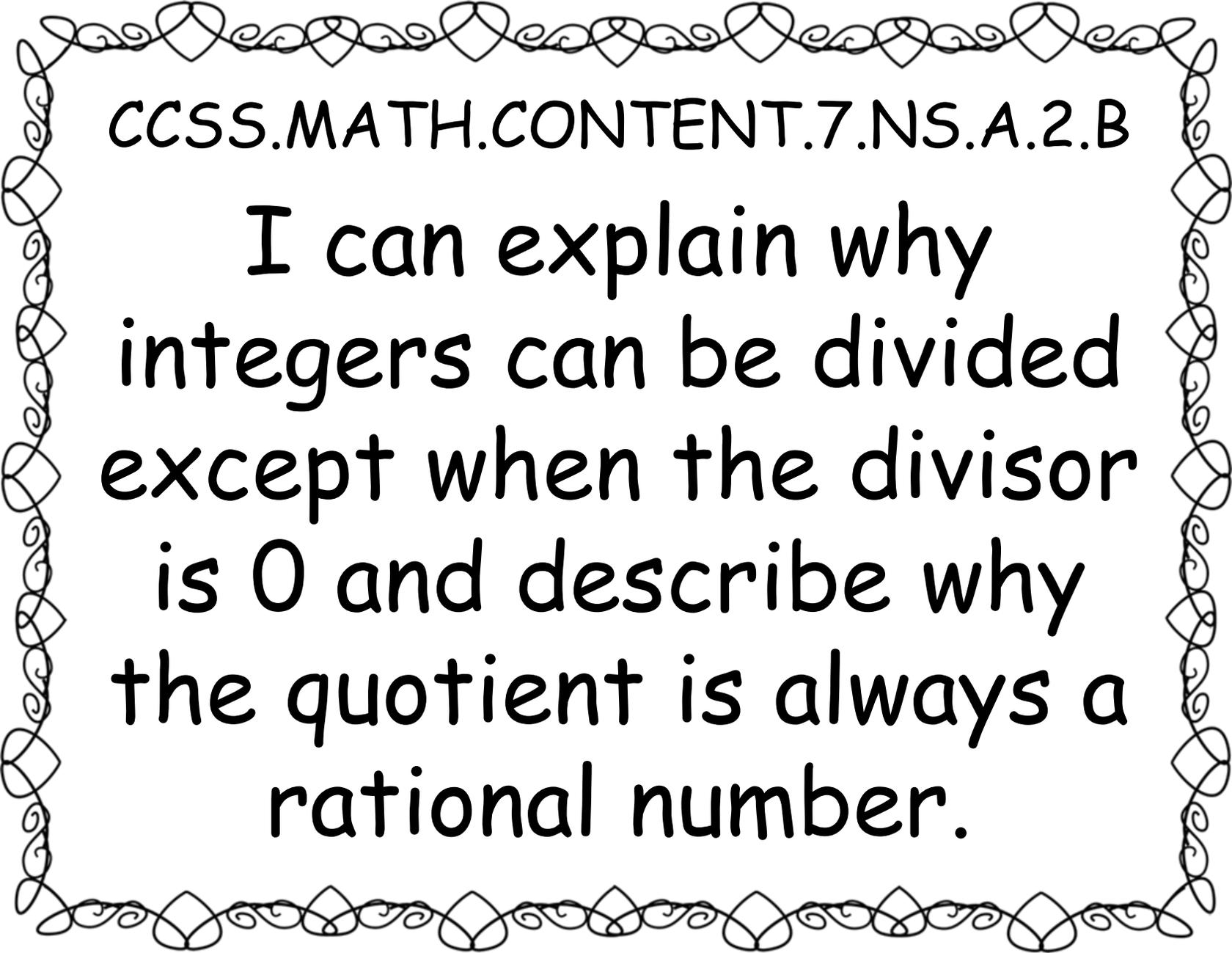
CCSS.MATH.CONTENT.7.NS.A.2.A

I can recognize and describe the rules when multiplying signed numbers and apply the order of operations, particularly the distributive property, to multiply rational numbers (ex: $(-1)(-1)=1$).



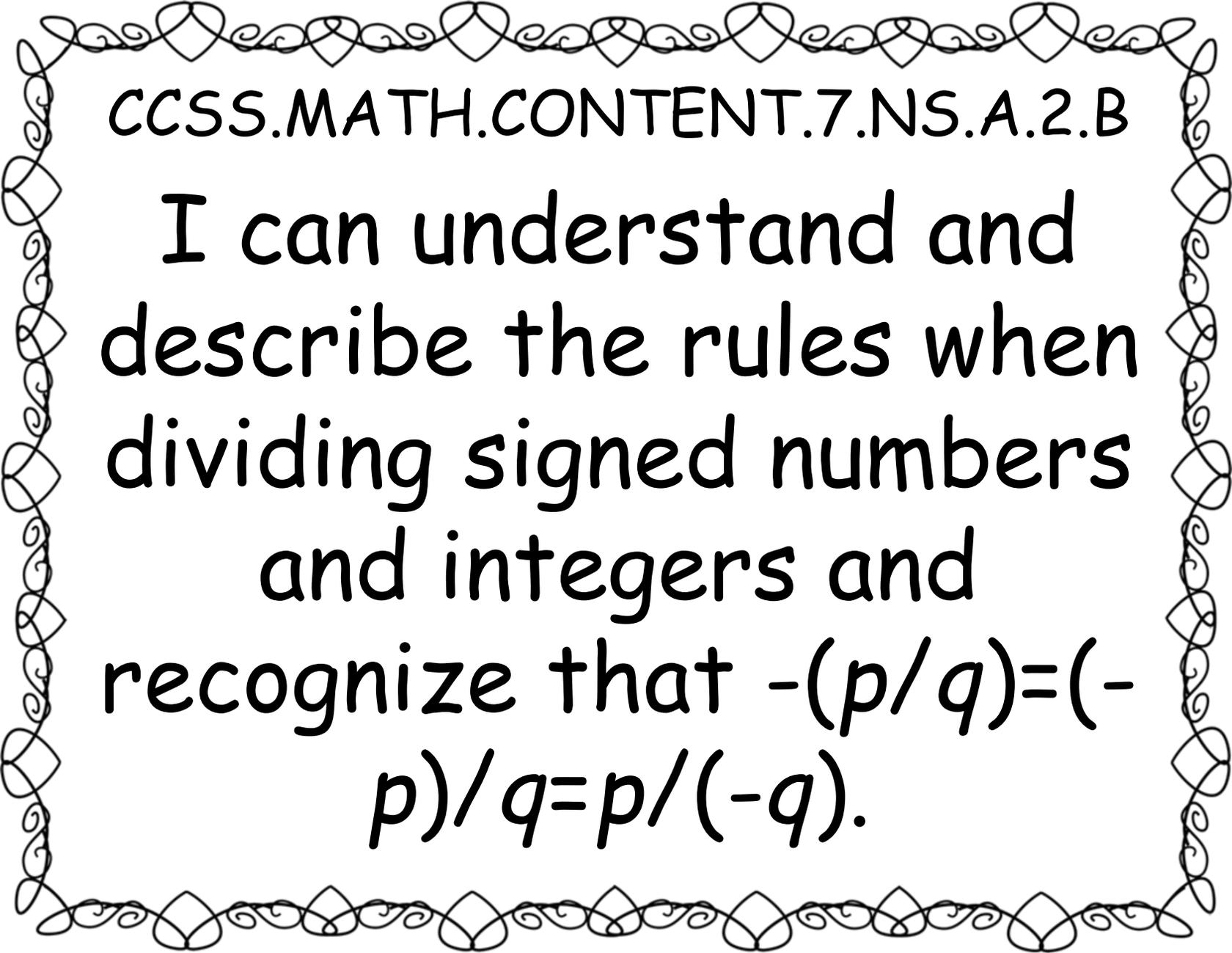
CCSS.MATH.CONTENT.7.NS.A.2.A

I can use the products
of rational numbers to
describe real-world
situations.



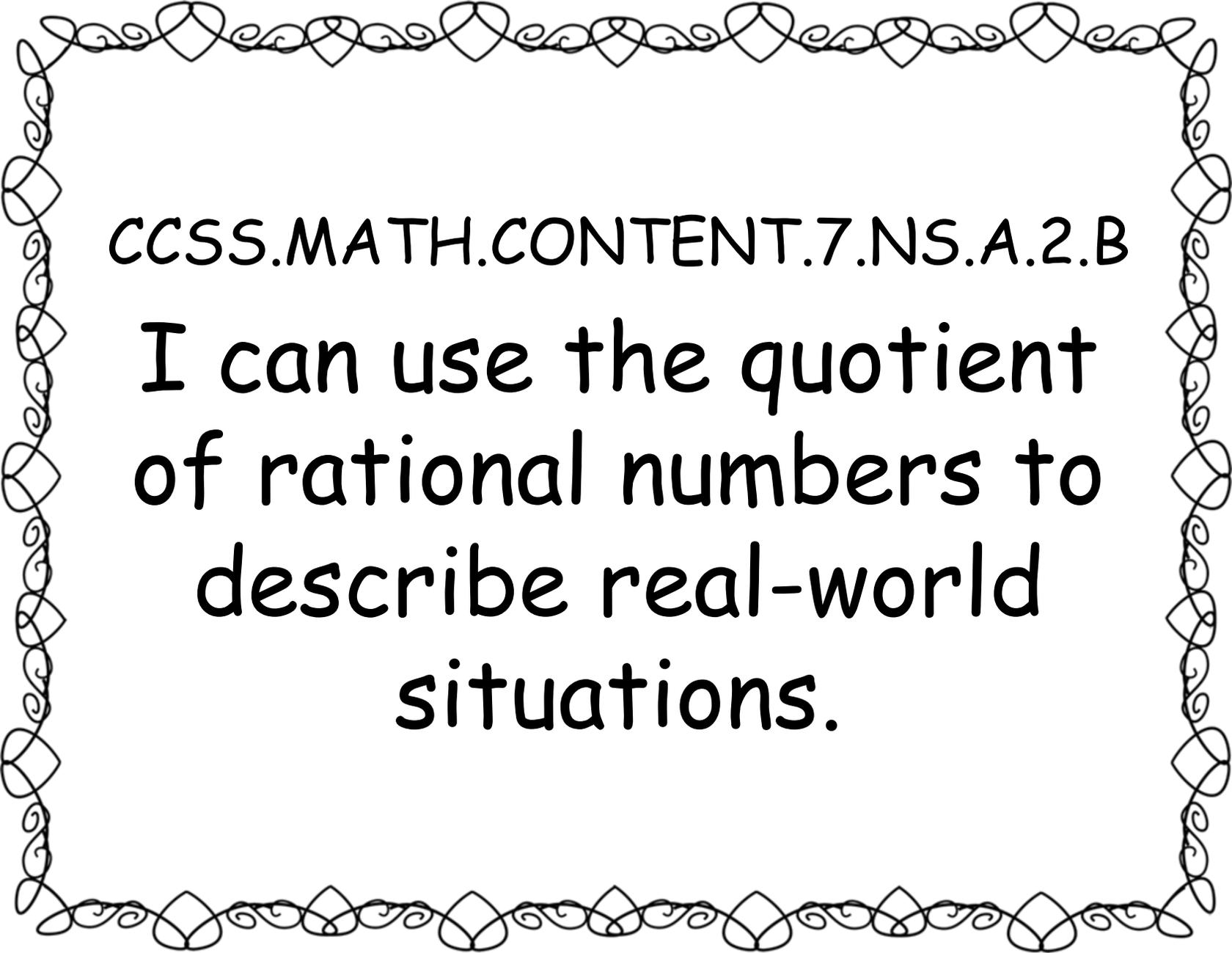
CCSS.MATH.CONTENT.7.NS.A.2.B

I can explain why integers can be divided except when the divisor is 0 and describe why the quotient is always a rational number.



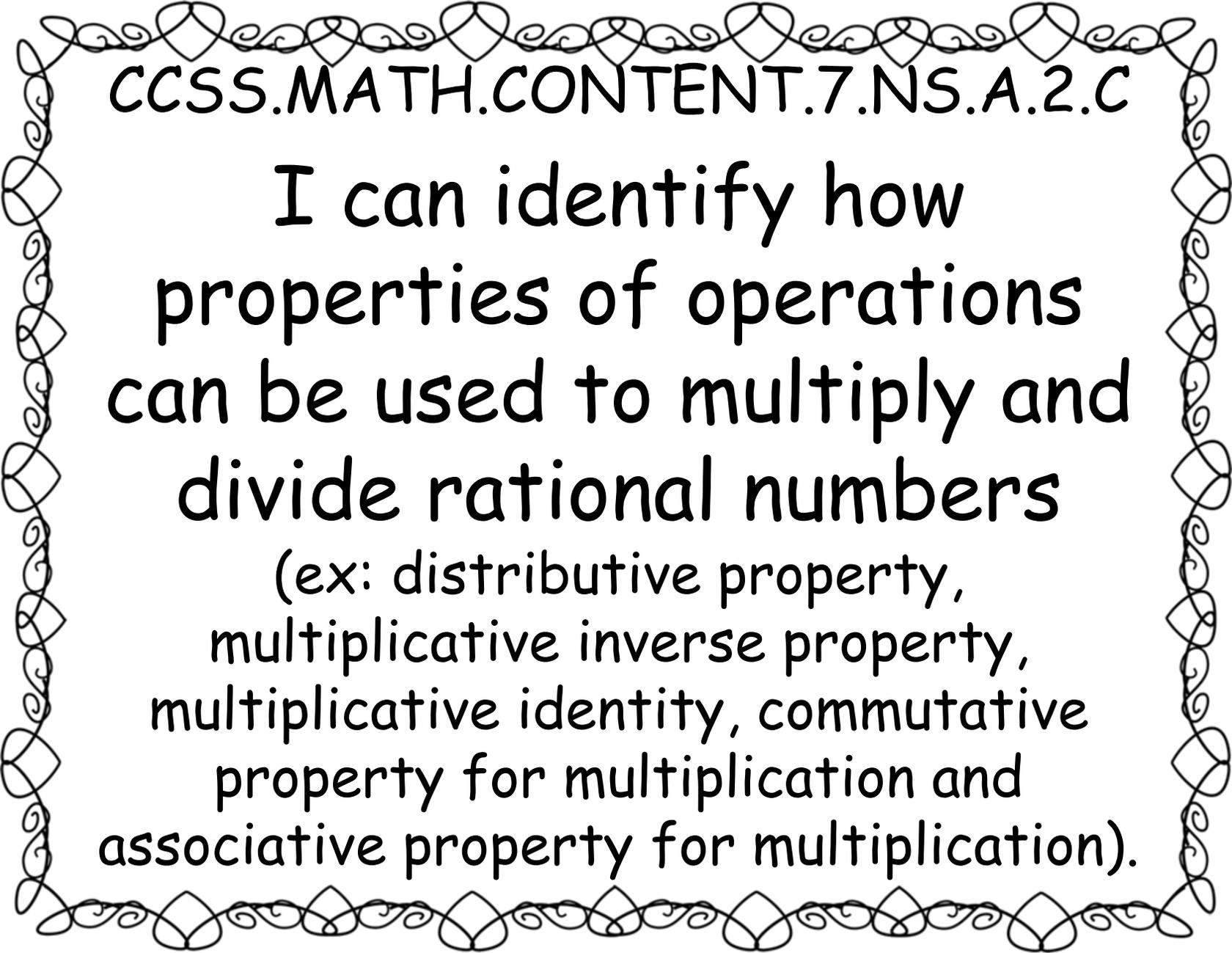
CCSS.MATH.CONTENT.7.NS.A.2.B

I can understand and describe the rules when dividing signed numbers and integers and recognize that $-(p/q) = (-p)/q = p/(-q)$.



CCSS.MATH.CONTENT.7.NS.A.2.B

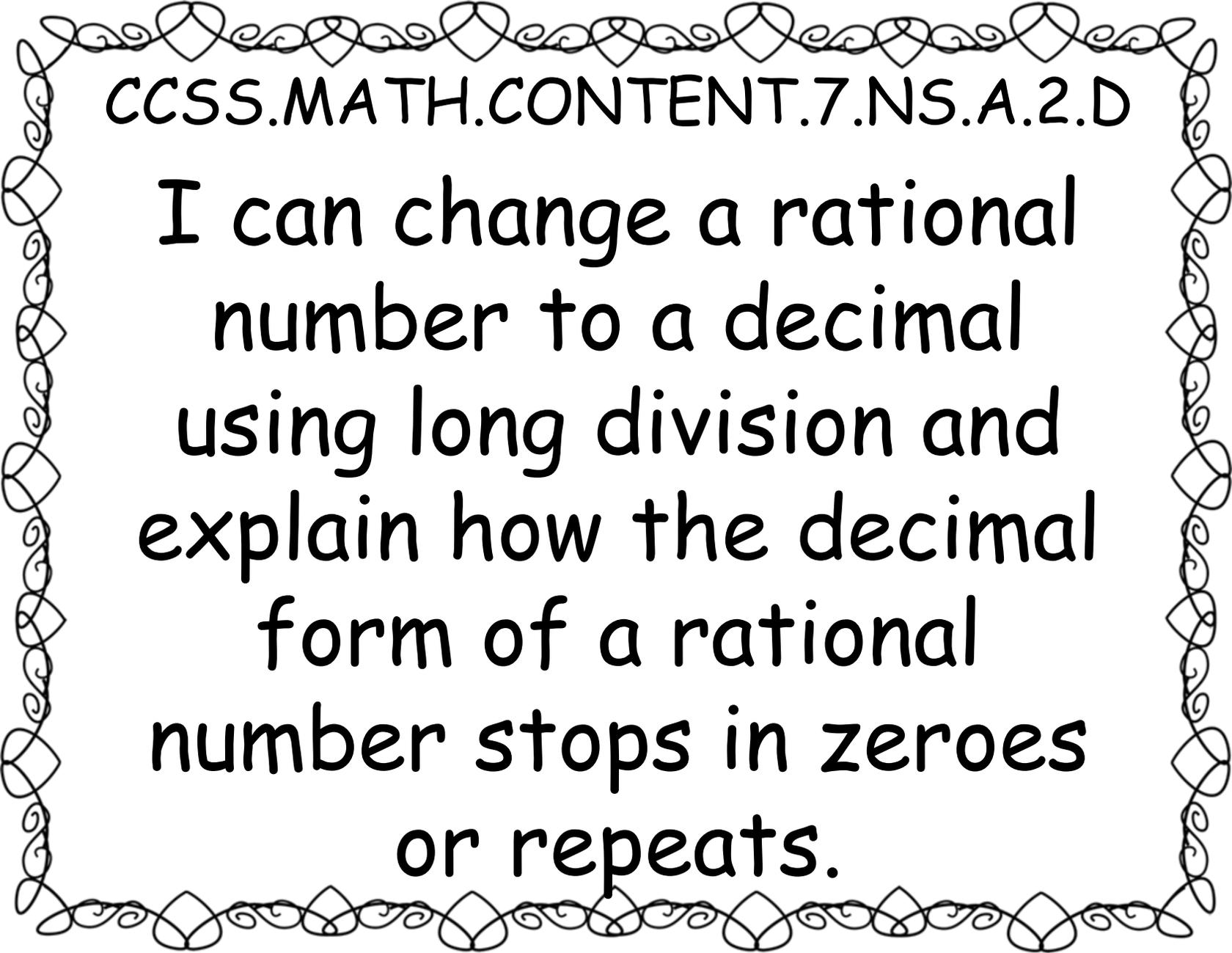
I can use the quotient
of rational numbers to
describe real-world
situations.



CCSS.MATH.CONTENT.7.NS.A.2.C

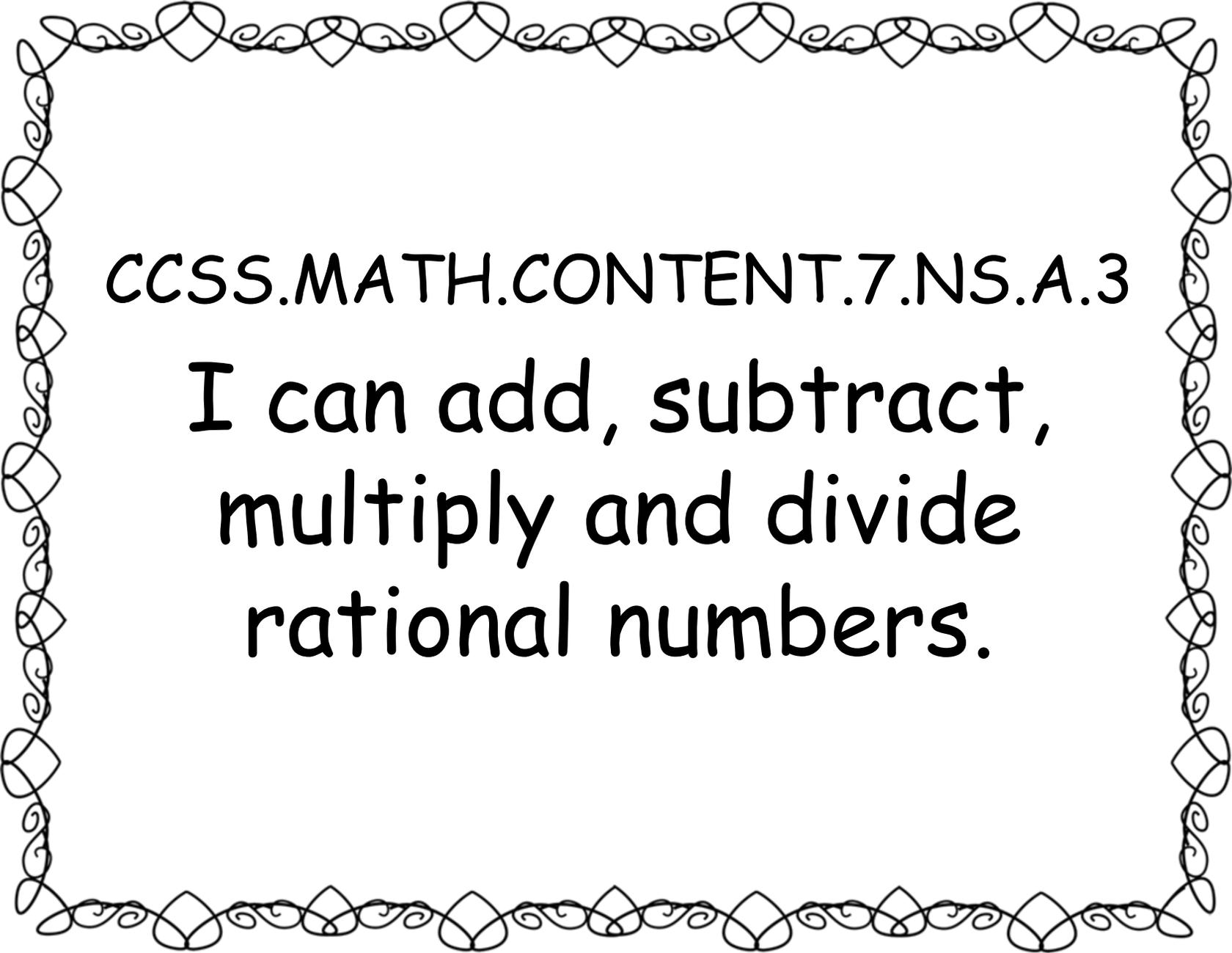
I can identify how
properties of operations
can be used to multiply and
divide rational numbers

(ex: distributive property,
multiplicative inverse property,
multiplicative identity, commutative
property for multiplication and
associative property for multiplication).



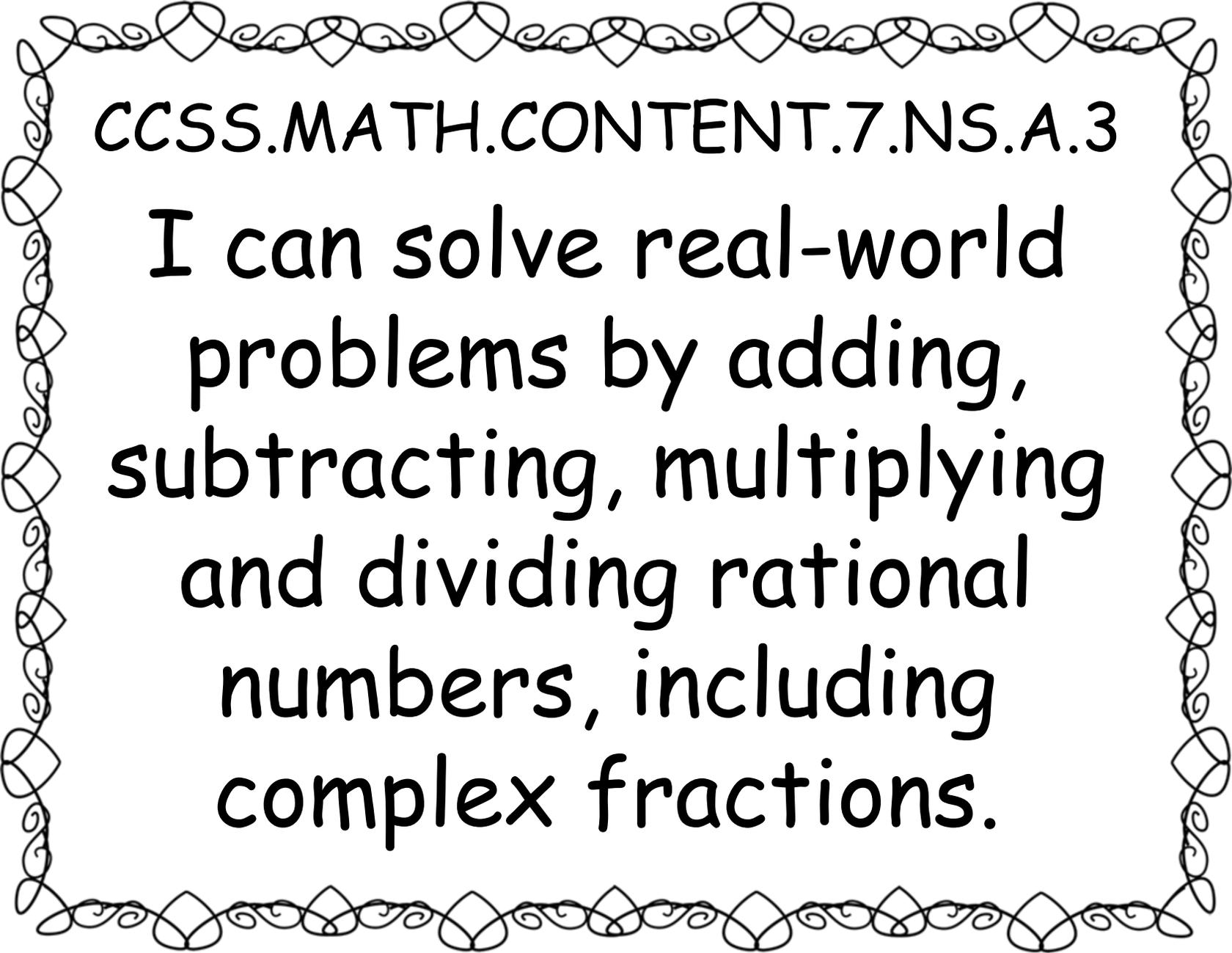
CCSS.MATH.CONTENT.7.NS.A.2.D

I can change a rational number to a decimal using long division and explain how the decimal form of a rational number stops in zeroes or repeats.



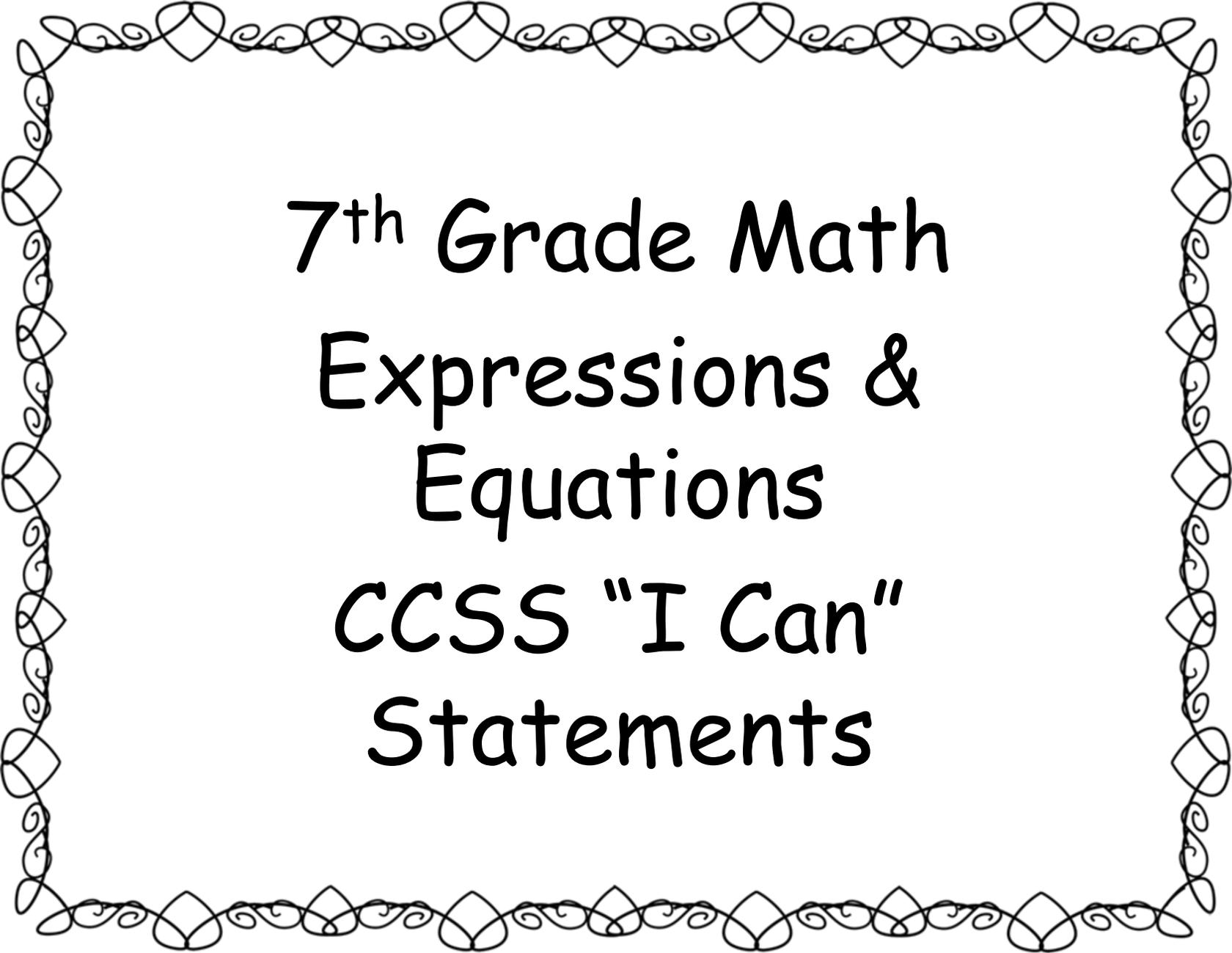
CCSS.MATH.CONTENT.7.NS.A.3

I can add, subtract,
multiply and divide
rational numbers.

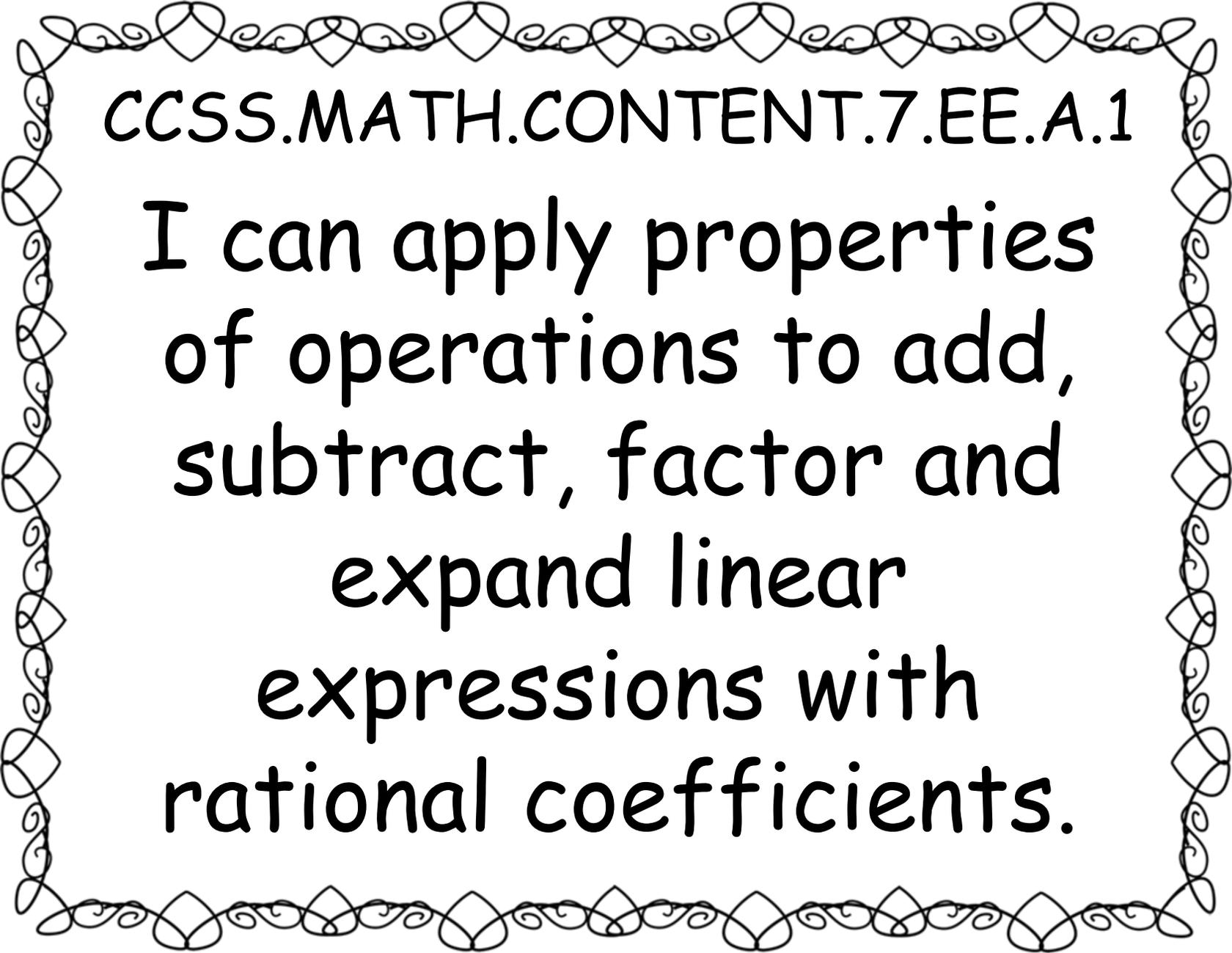


CCSS.MATH.CONTENT.7.NS.A.3

I can solve real-world problems by adding, subtracting, multiplying and dividing rational numbers, including complex fractions.

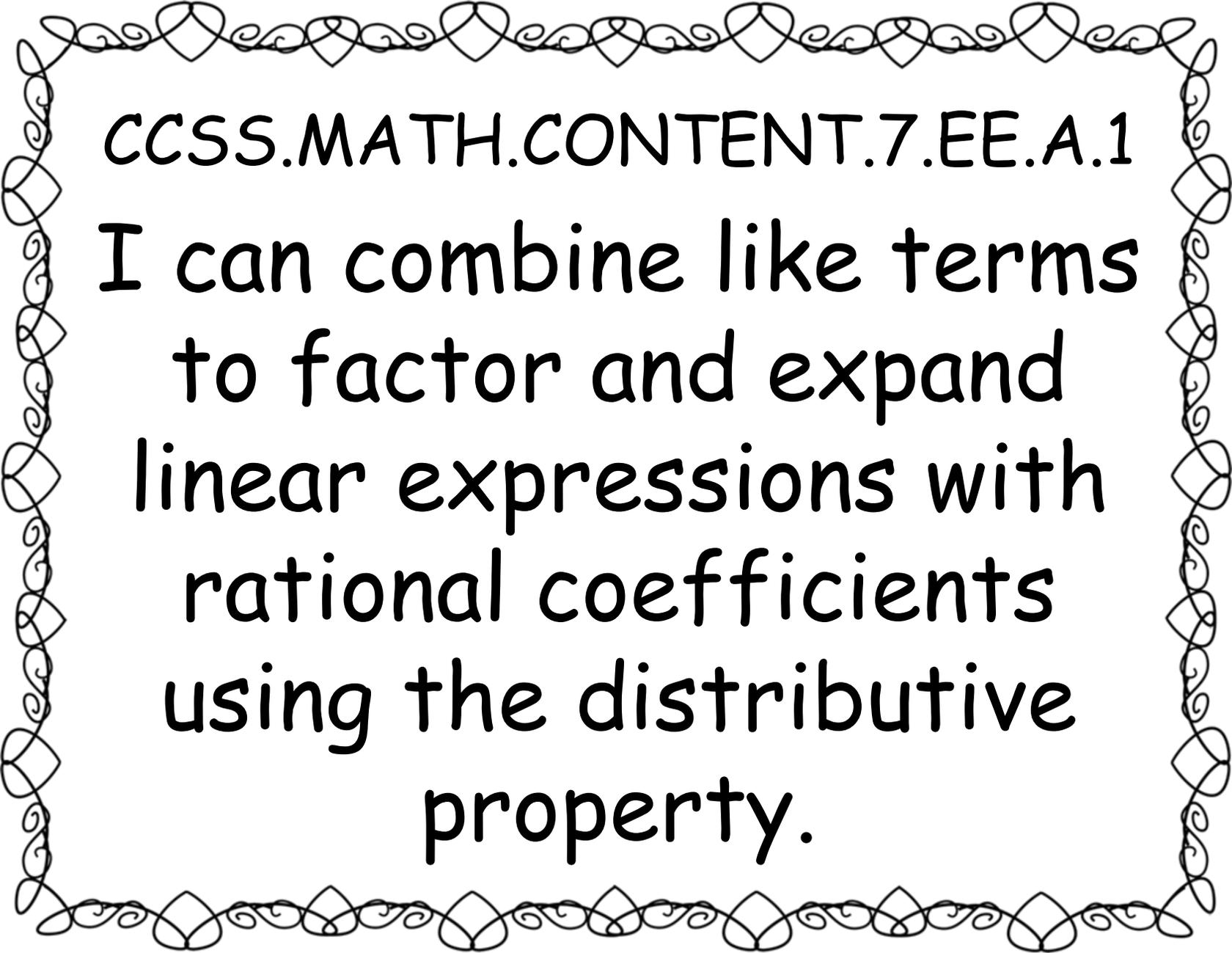


7th Grade Math
Expressions &
Equations
CCSS "I Can"
Statements



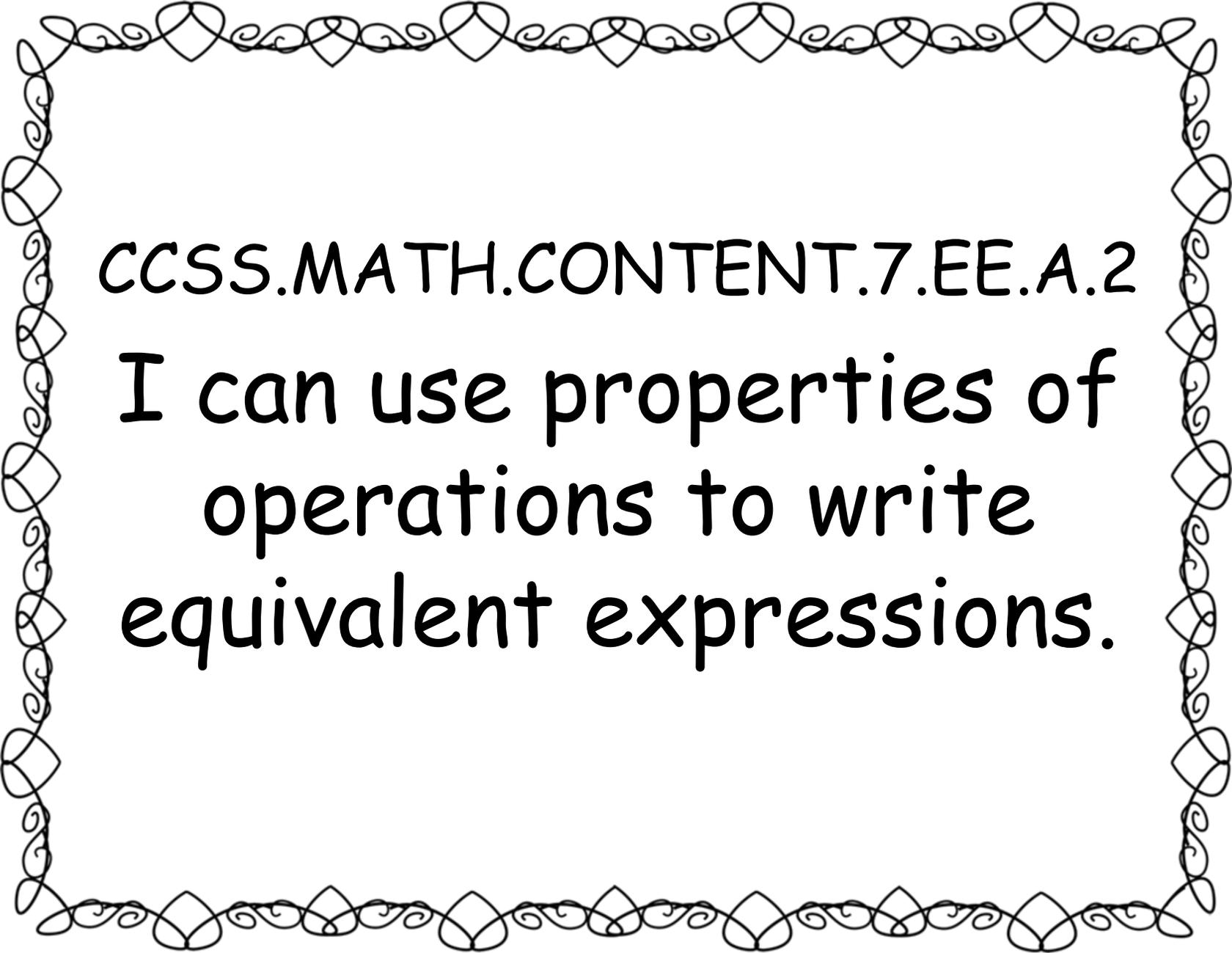
CCSS.MATH.CONTENT.7.EE.A.1

I can apply properties
of operations to add,
subtract, factor and
expand linear
expressions with
rational coefficients.



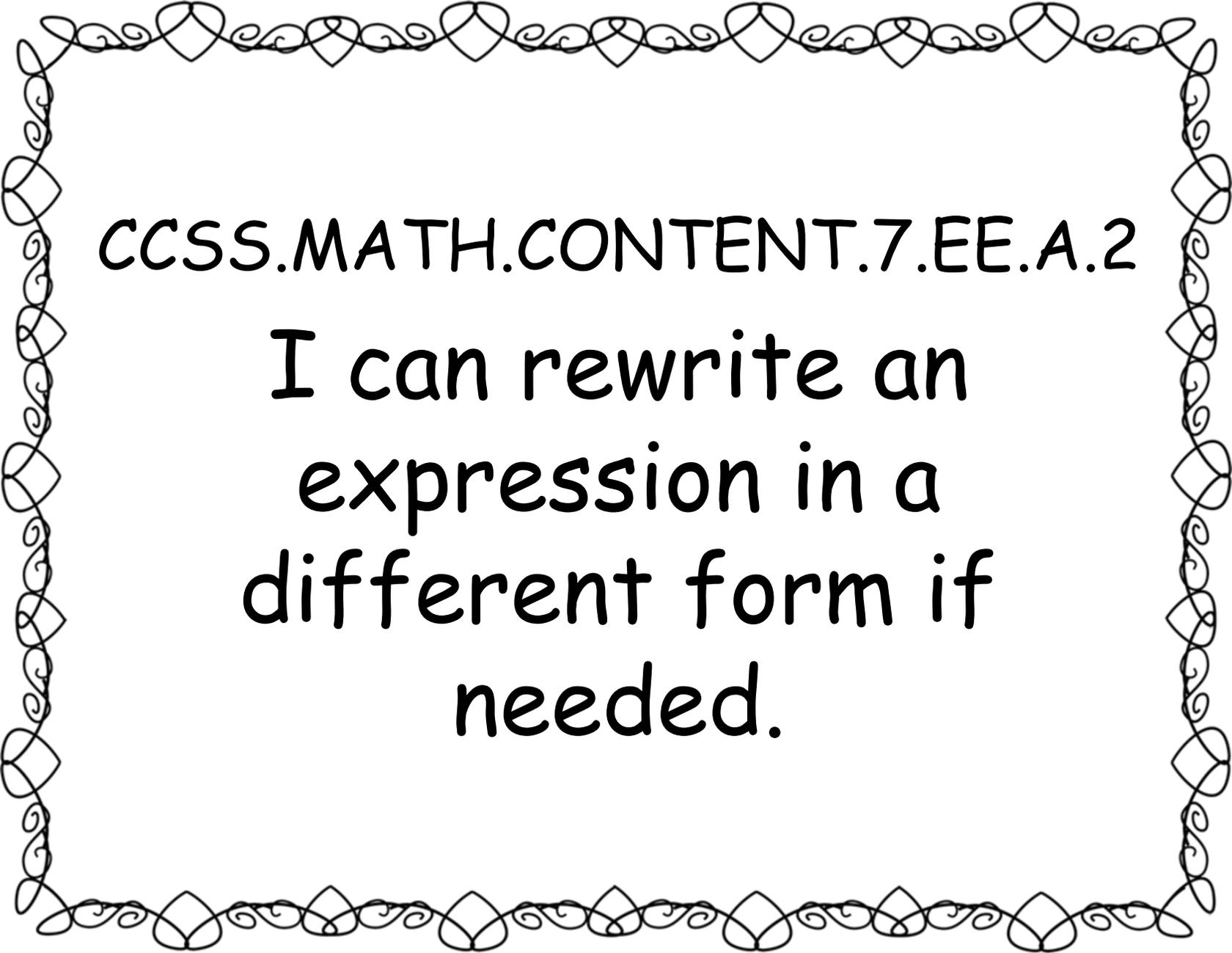
CCSS.MATH.CONTENT.7.EE.A.1

I can combine like terms
to factor and expand
linear expressions with
rational coefficients
using the distributive
property.



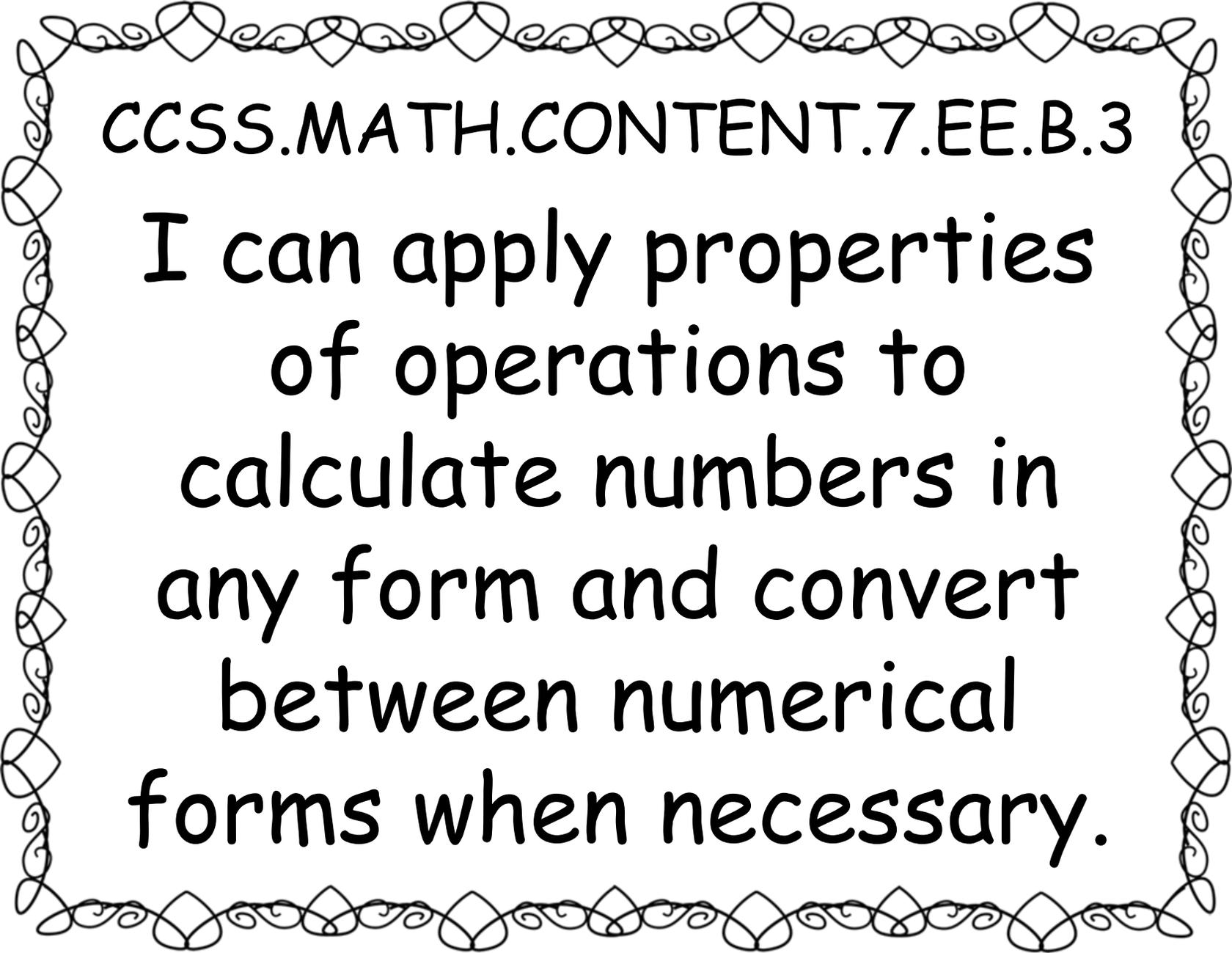
CCSS.MATH.CONTENT.7.EE.A.2

I can use properties of
operations to write
equivalent expressions.



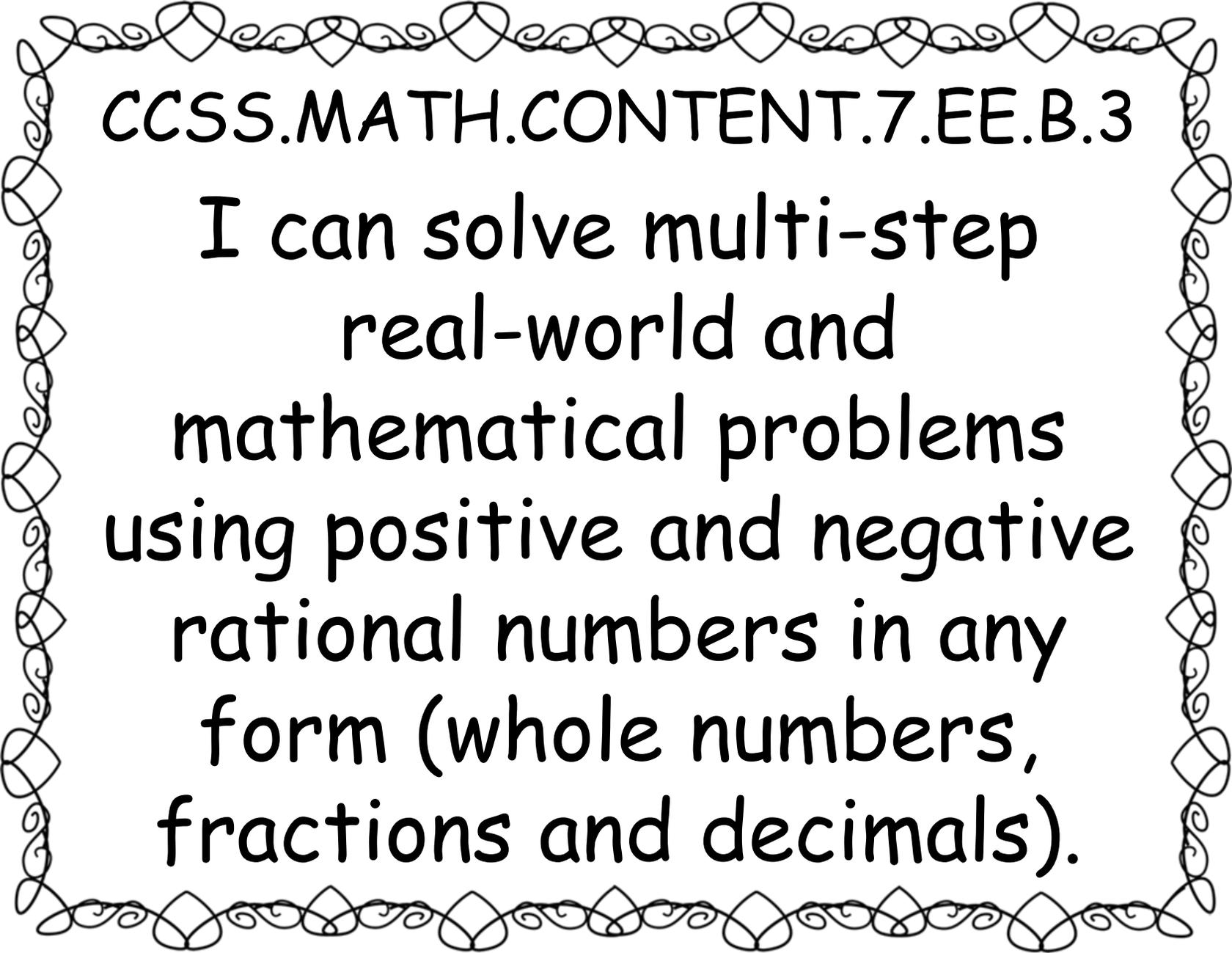
CCSS.MATH.CONTENT.7.EE.A.2

I can rewrite an
expression in a
different form if
needed.



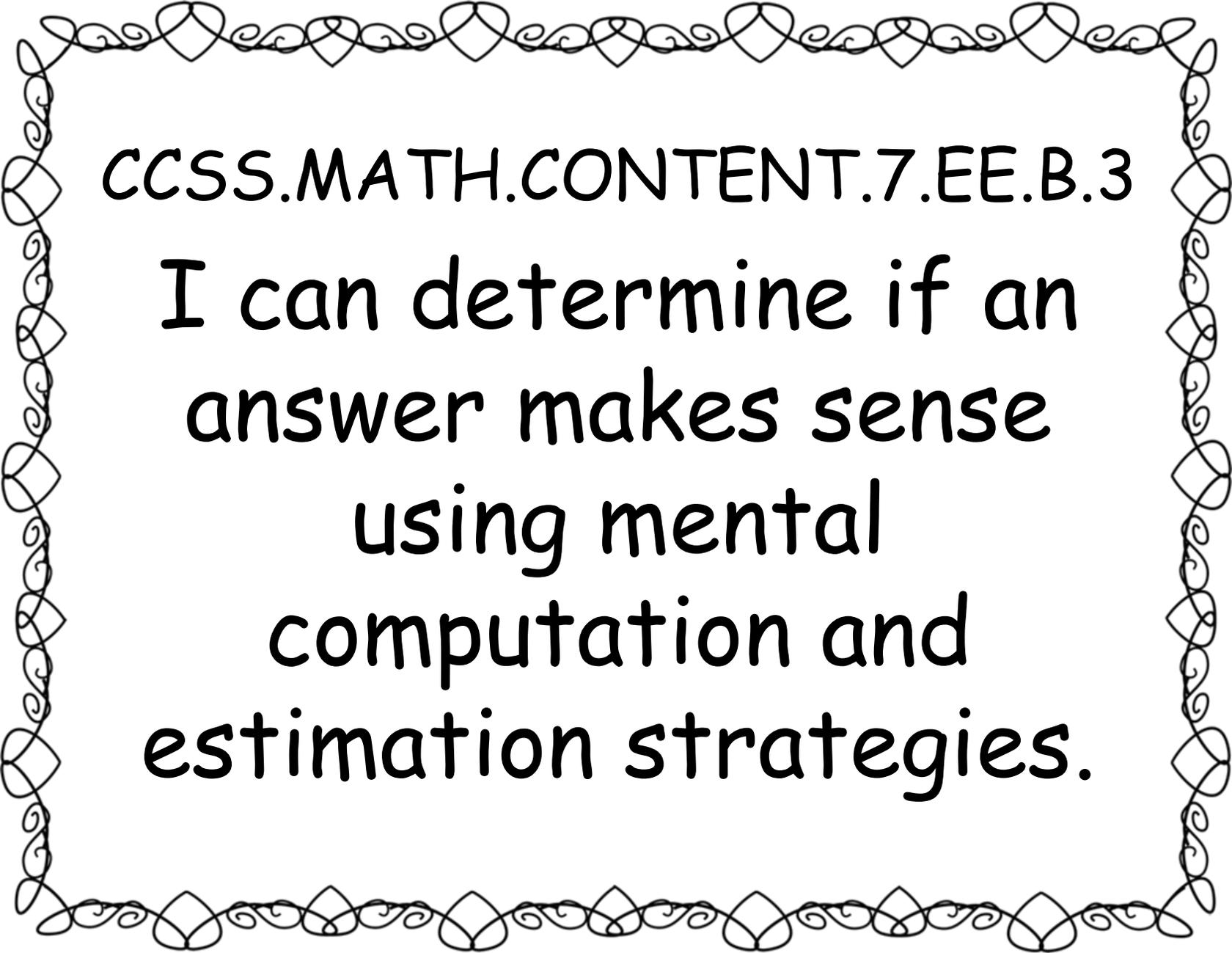
CCSS.MATH.CONTENT.7.EE.B.3

I can apply properties
of operations to
calculate numbers in
any form and convert
between numerical
forms when necessary.



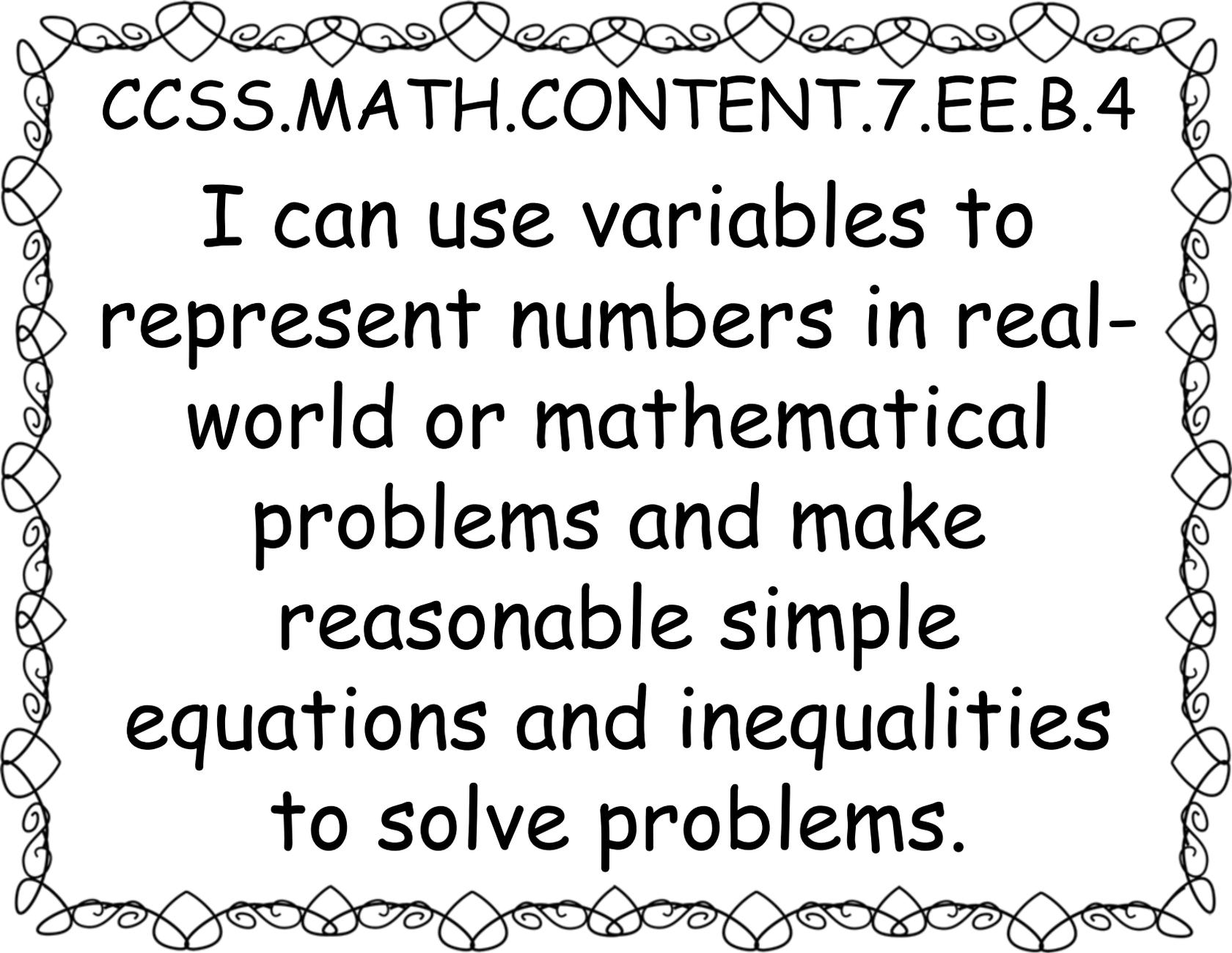
CCSS.MATH.CONTENT.7.EE.B.3

I can solve multi-step
real-world and
mathematical problems
using positive and negative
rational numbers in any
form (whole numbers,
fractions and decimals).



CCSS.MATH.CONTENT.7.EE.B.3

I can determine if an
answer makes sense
using mental
computation and
estimation strategies.



CCSS.MATH.CONTENT.7.EE.B.4

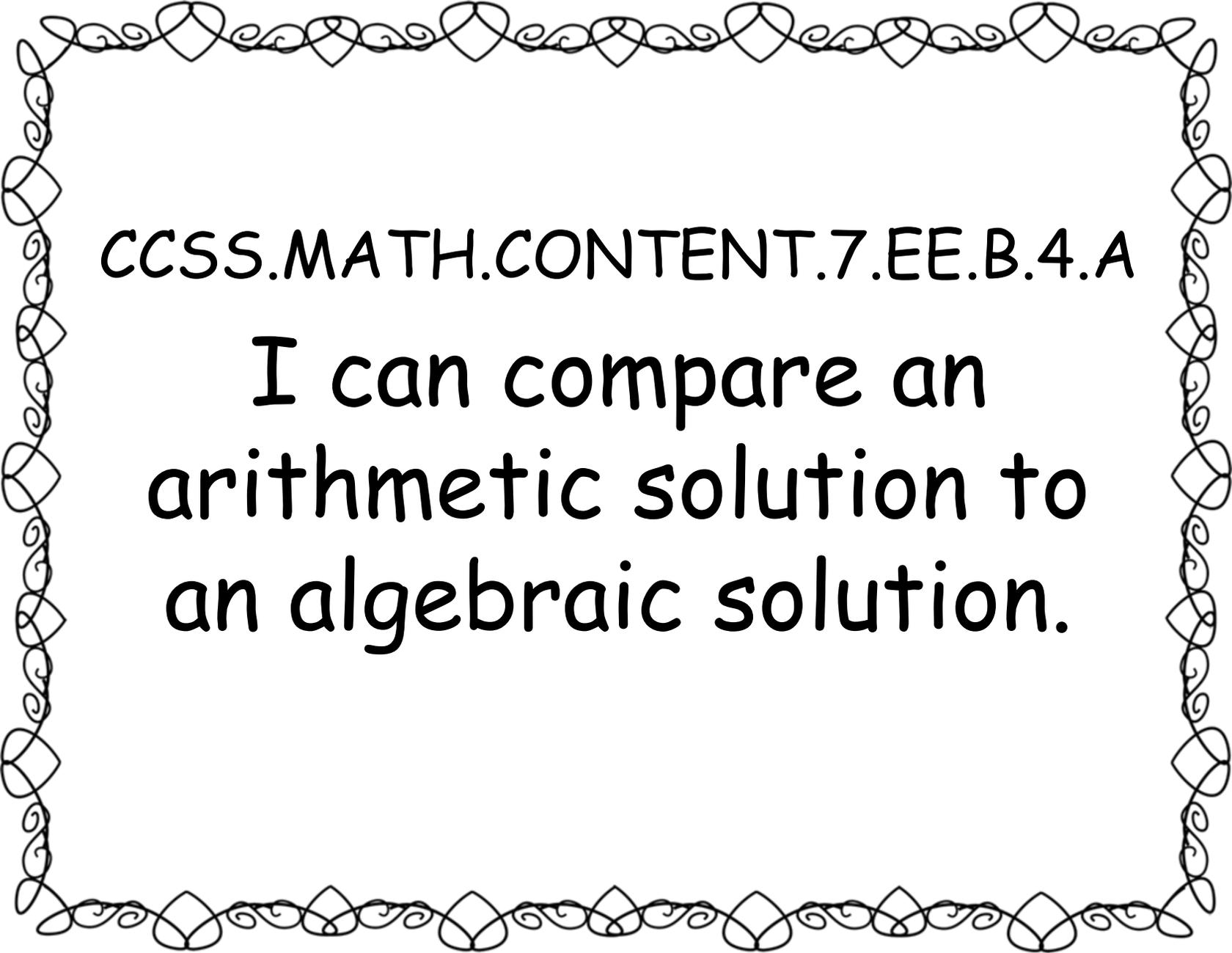
I can use variables to represent numbers in real-world or mathematical problems and make reasonable simple equations and inequalities to solve problems.

CCSS.MATH.CONTENT.7.EE.B.4.A

I can identify and
fluently solve equations
in the form $px+q=r$ and

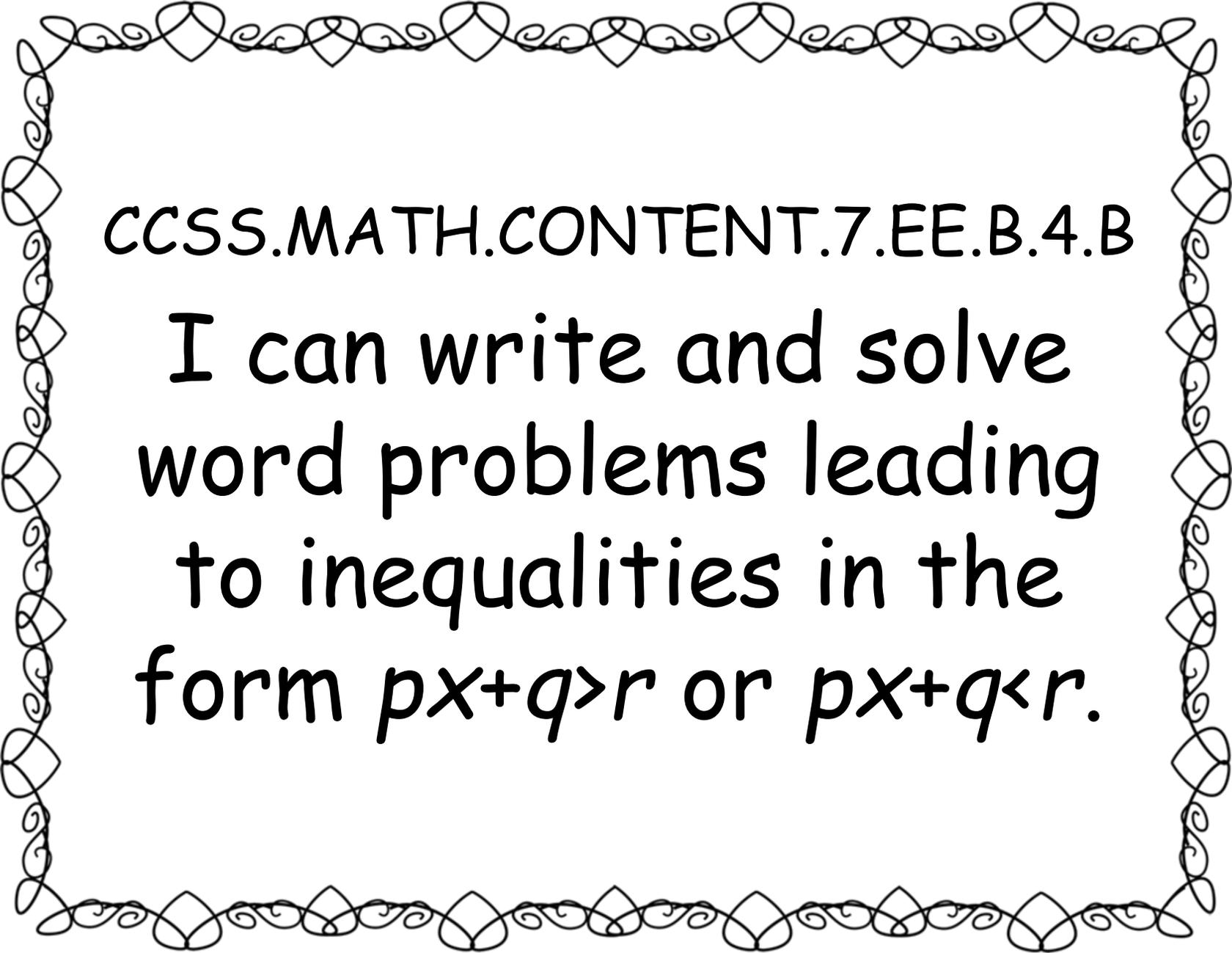
$$p(x+q)=r$$

(ex: The perimeter of a
rectangle is 54 cm. Its length is
6 cm. What is its width?).



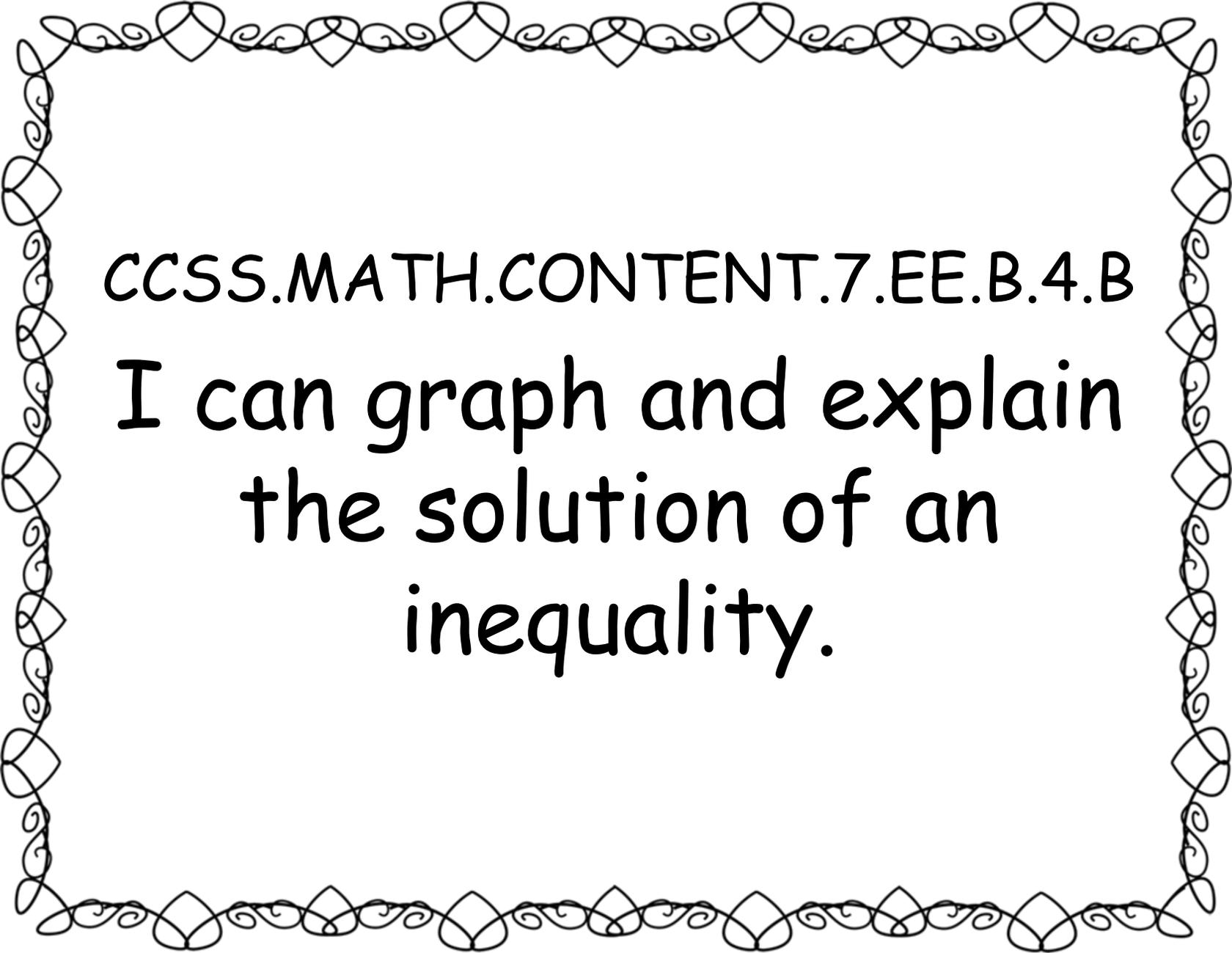
CCSS.MATH.CONTENT.7.EE.B.4.A

I can compare an
arithmetic solution to
an algebraic solution.



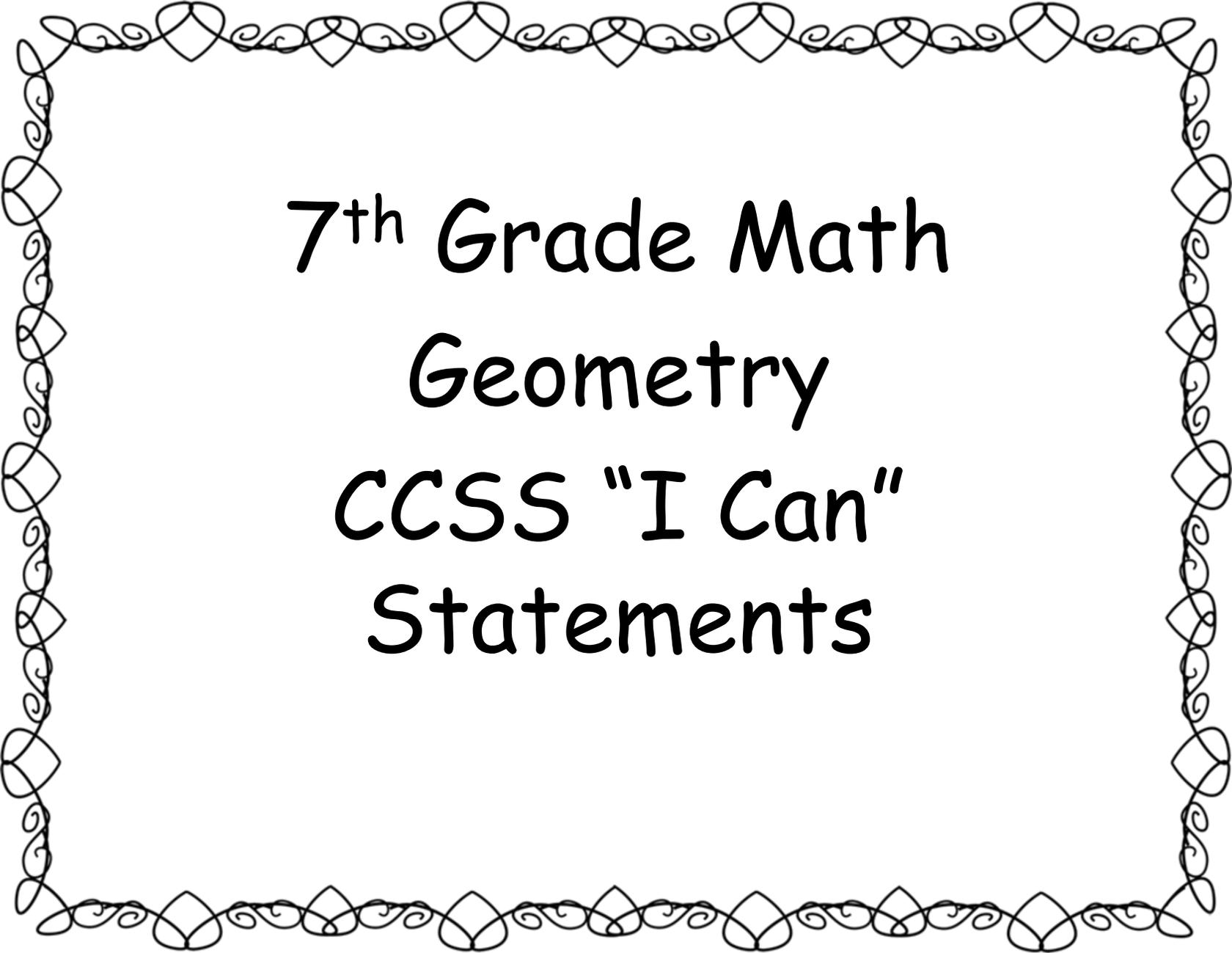
CCSS.MATH.CONTENT.7.EE.B.4.B

I can write and solve
word problems leading
to inequalities in the
form $px+q>r$ or $px+q<r$.

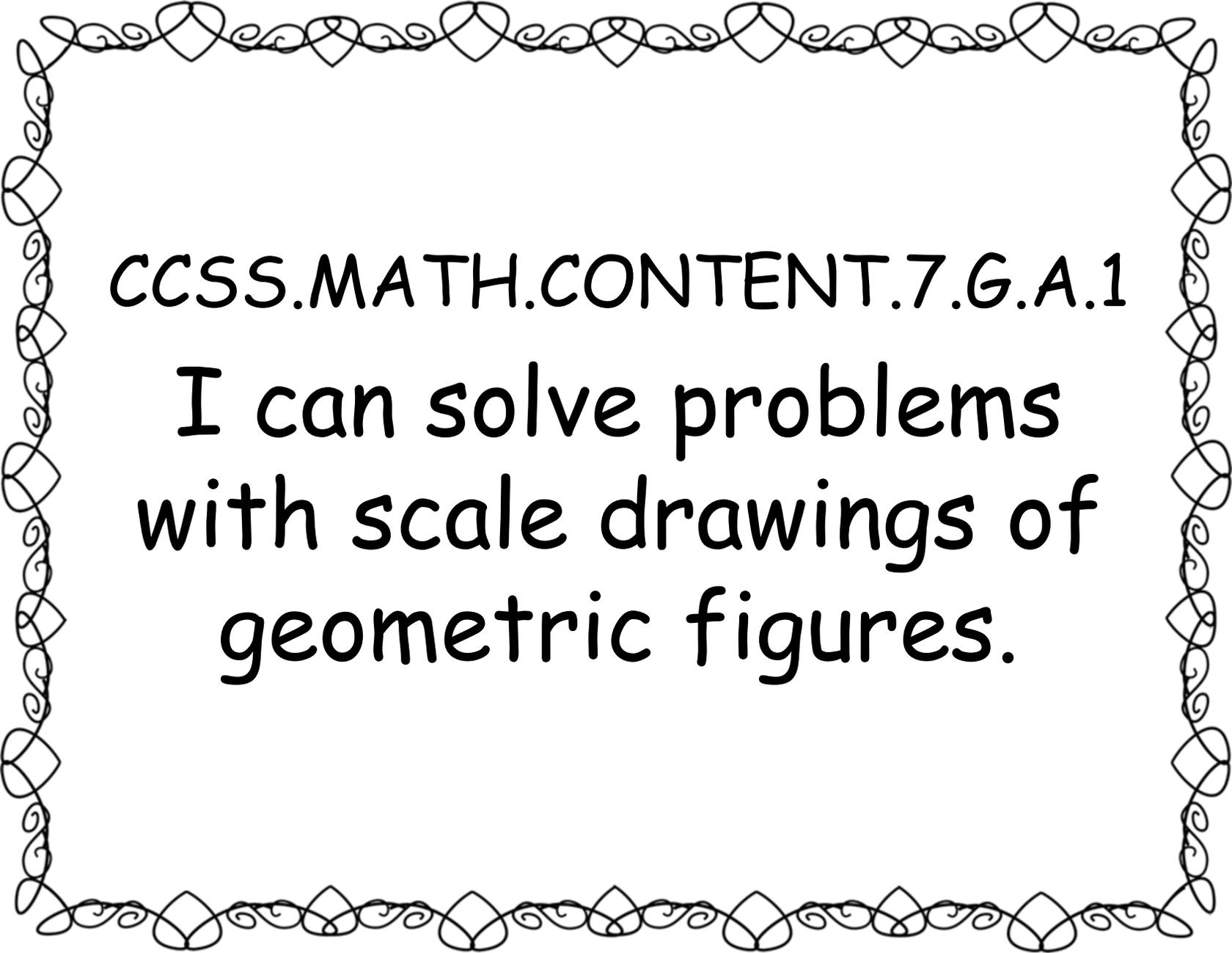


CCSS.MATH.CONTENT.7.EE.B.4.B

I can graph and explain
the solution of an
inequality.

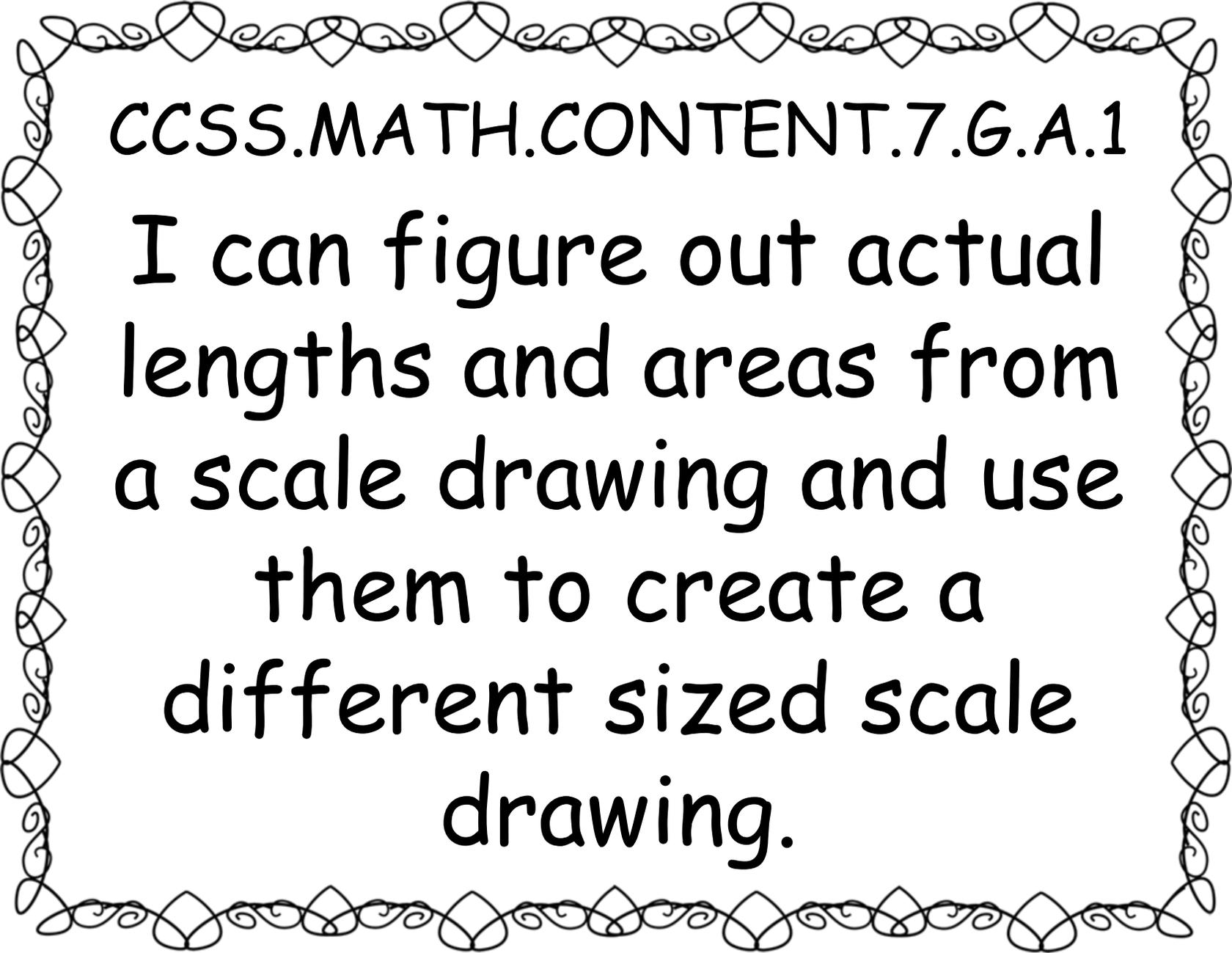


7th Grade Math
Geometry
CCSS "I Can"
Statements



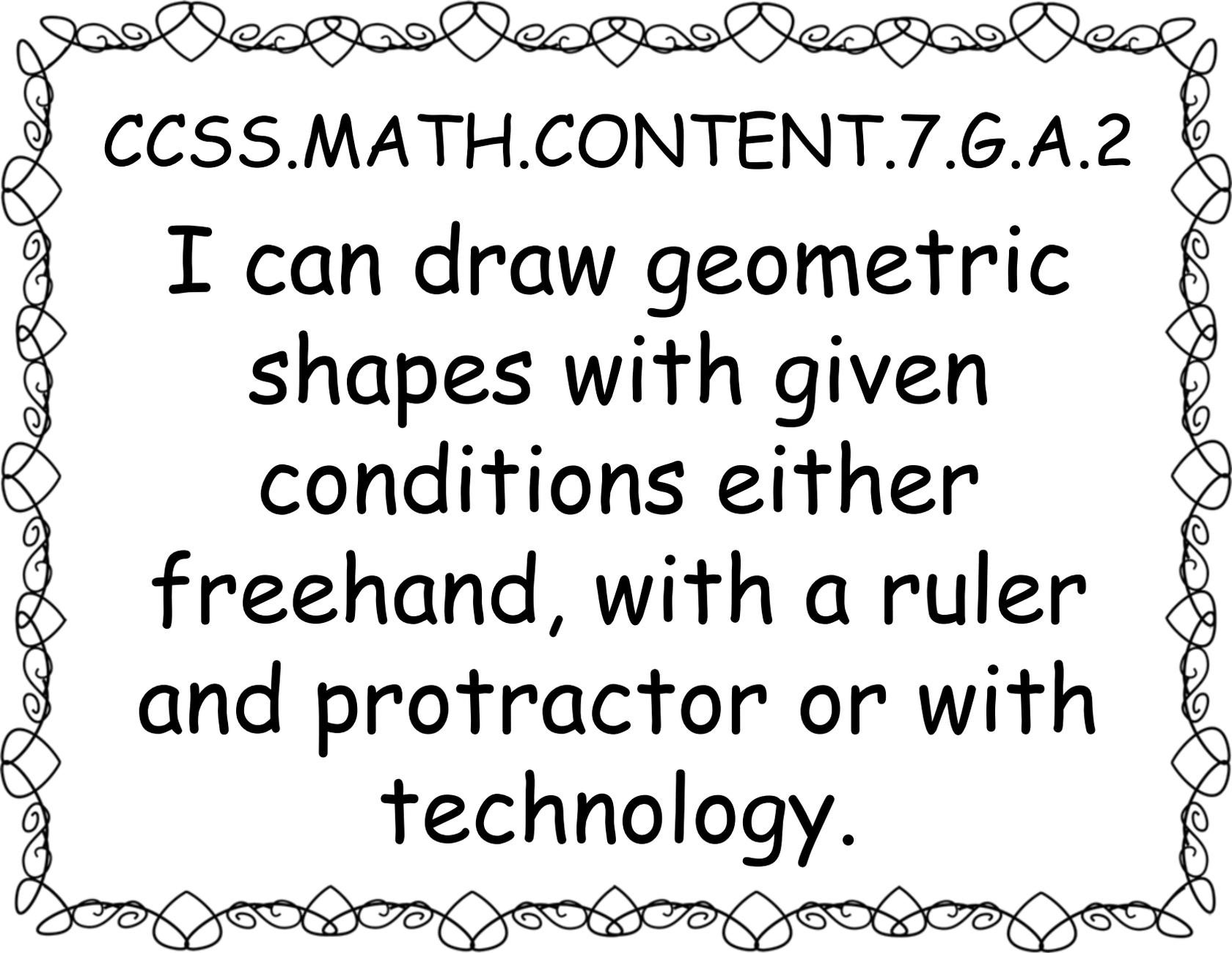
CCSS.MATH.CONTENT.7.G.A.1

I can solve problems
with scale drawings of
geometric figures.



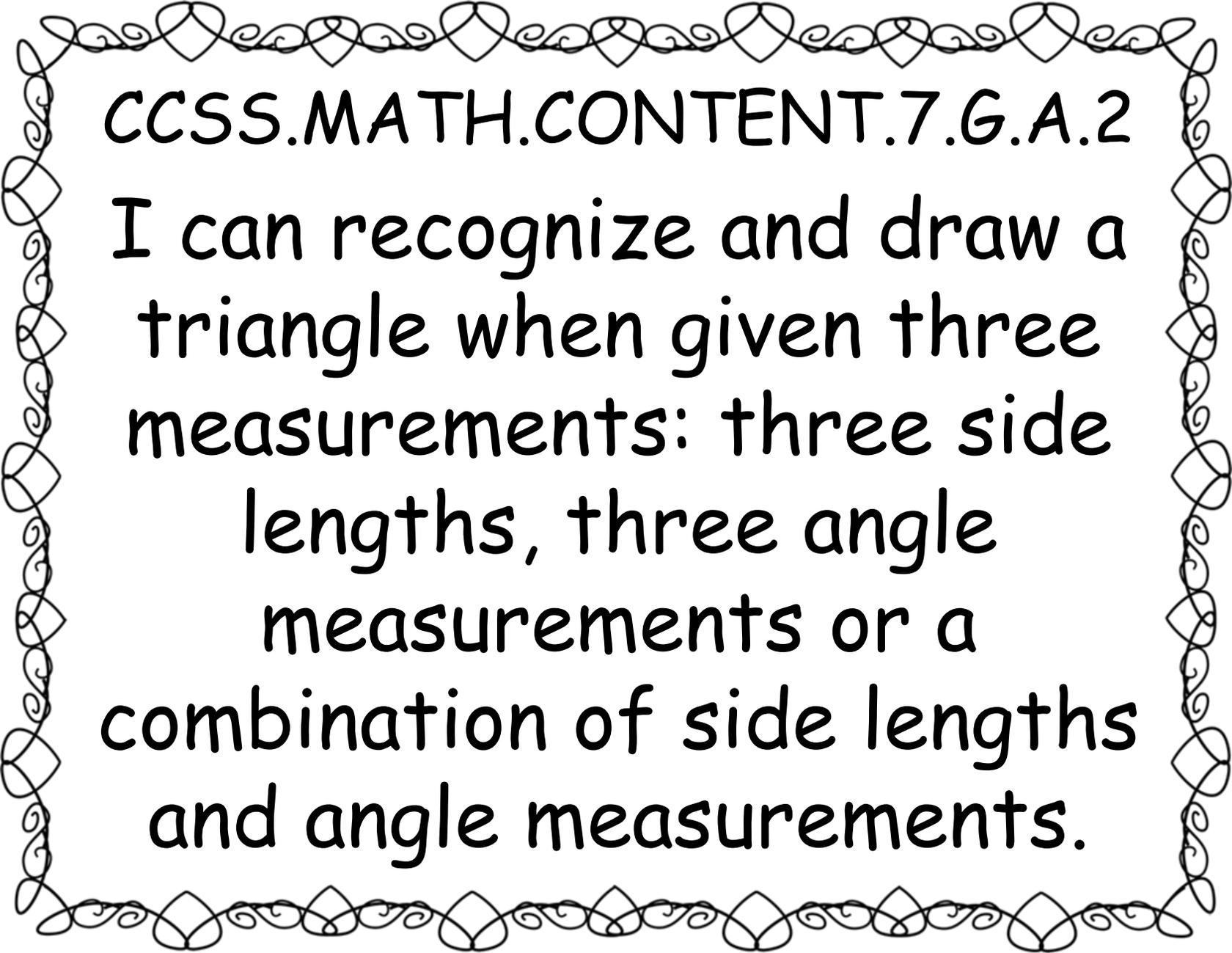
CCSS.MATH.CONTENT.7.G.A.1

I can figure out actual lengths and areas from a scale drawing and use them to create a different sized scale drawing.



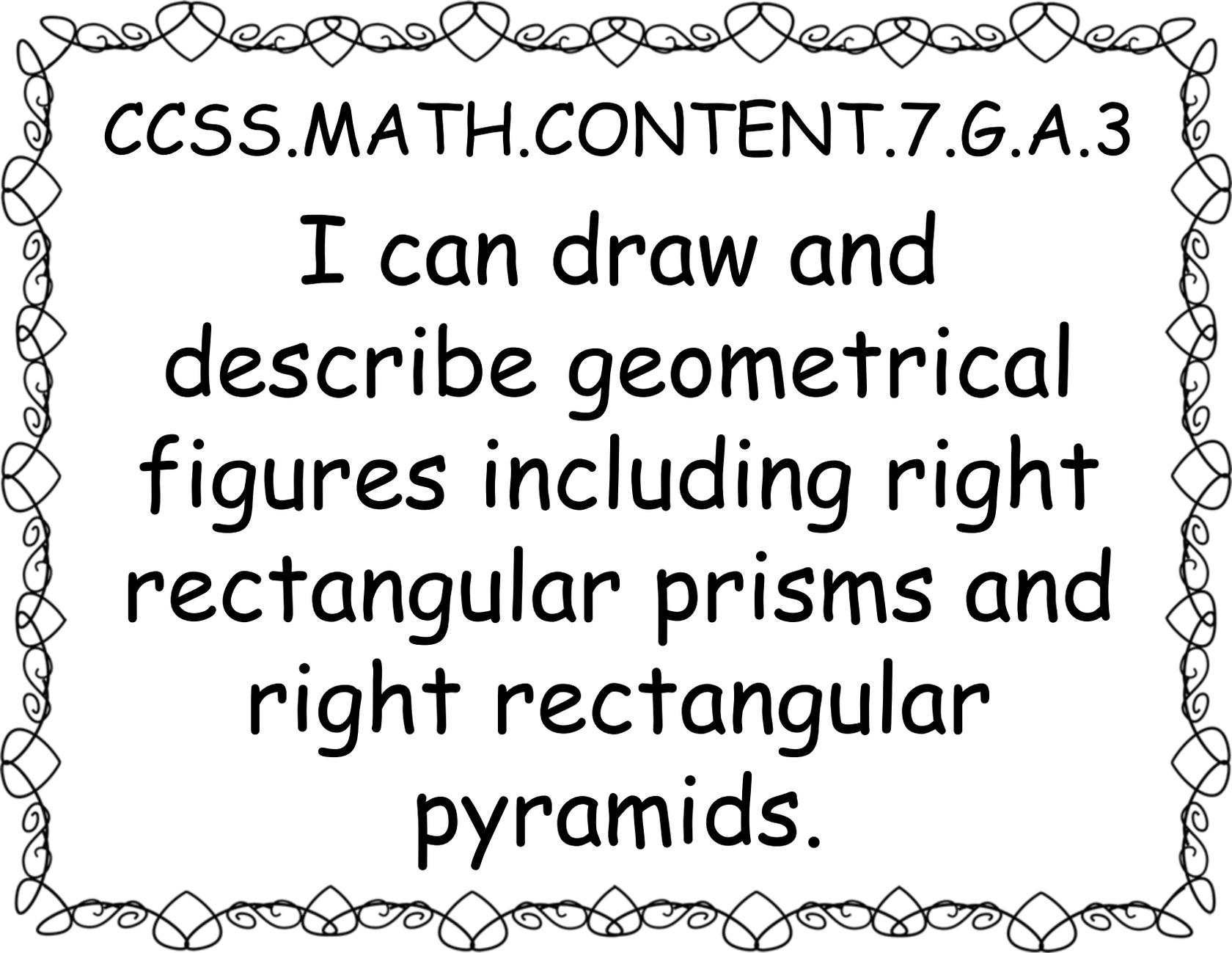
CCSS.MATH.CONTENT.7.G.A.2

I can draw geometric shapes with given conditions either freehand, with a ruler and protractor or with technology.



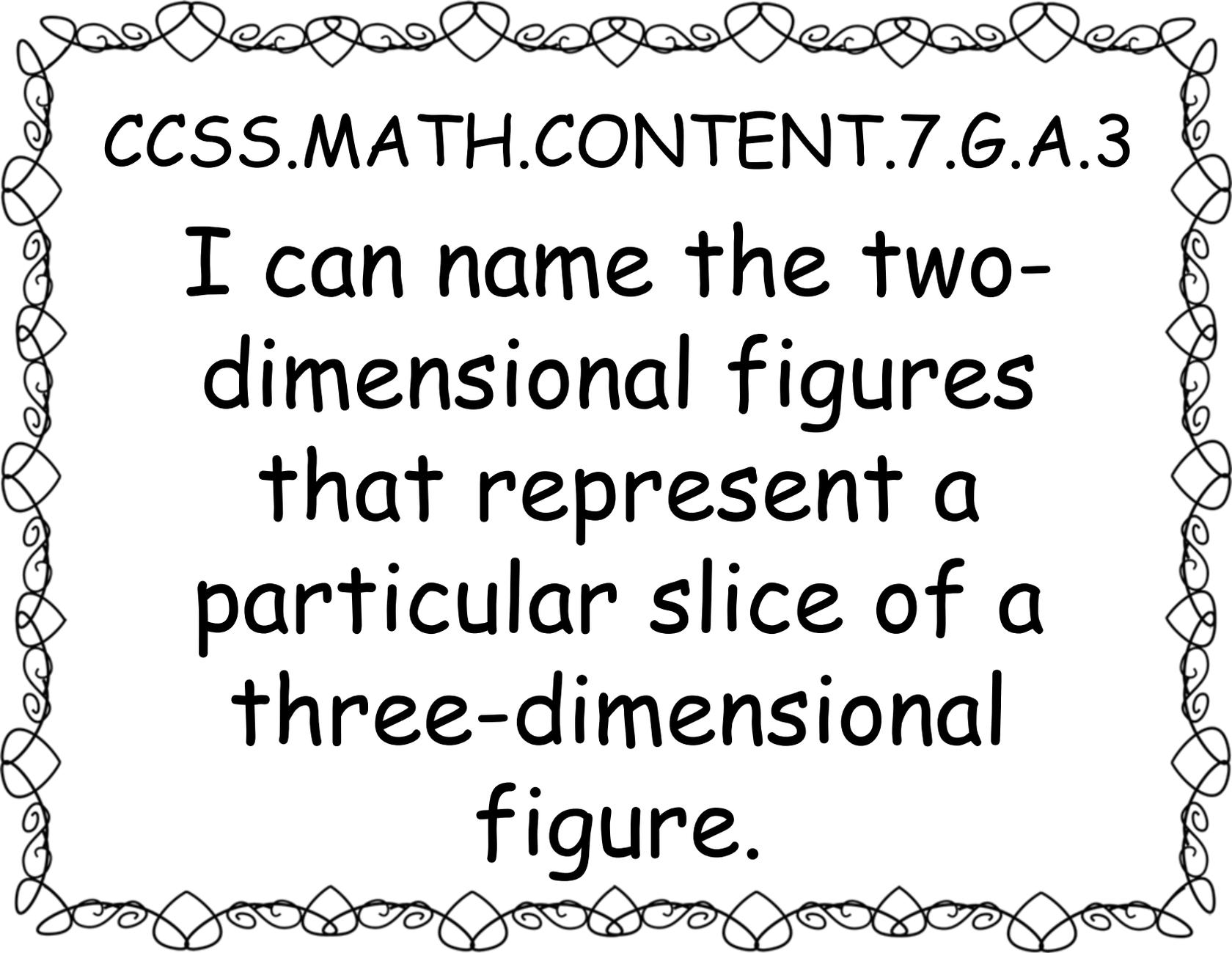
CCSS.MATH.CONTENT.7.G.A.2

I can recognize and draw a triangle when given three measurements: three side lengths, three angle measurements or a combination of side lengths and angle measurements.



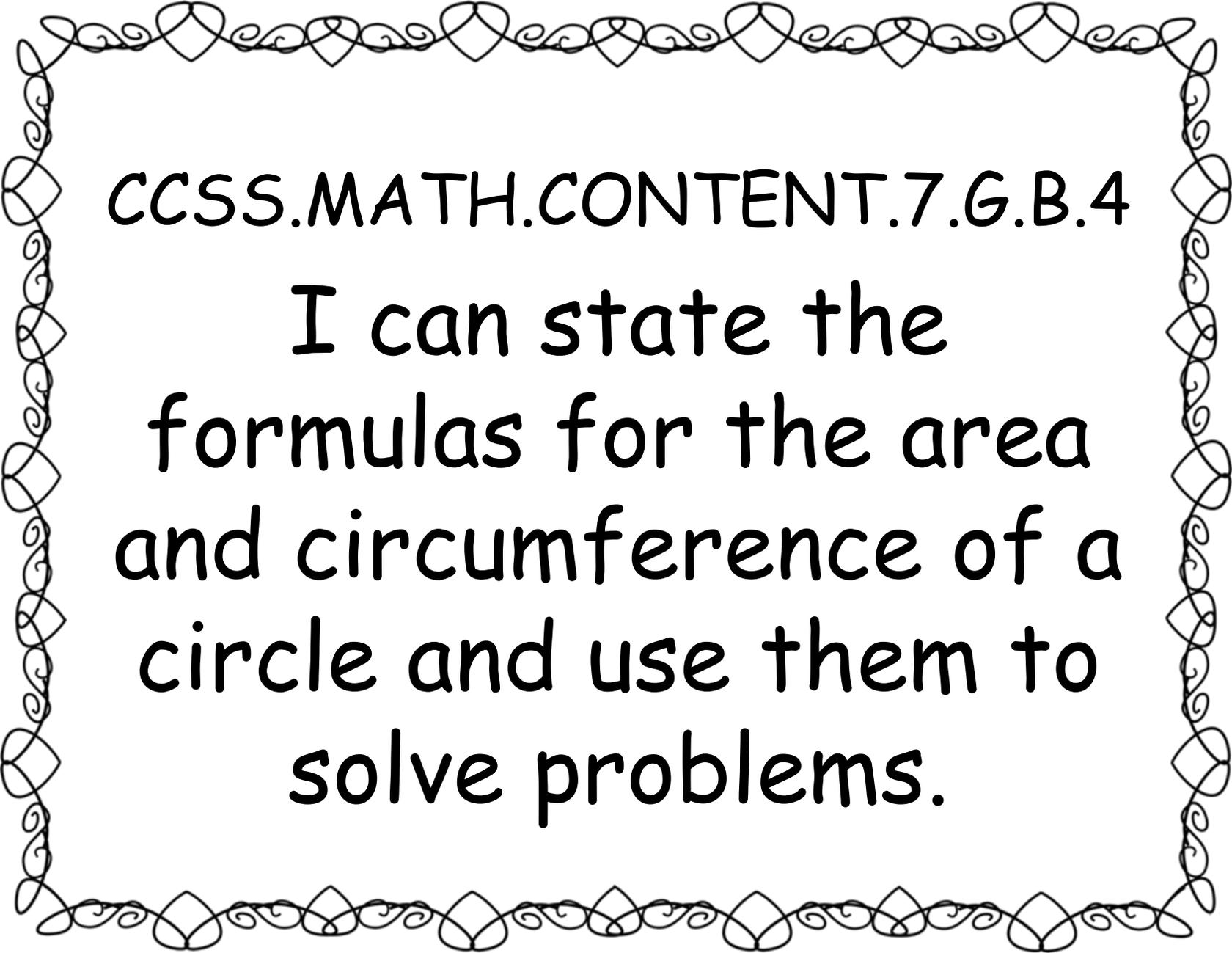
CCSS.MATH.CONTENT.7.G.A.3

I can draw and describe geometrical figures including right rectangular prisms and right rectangular pyramids.



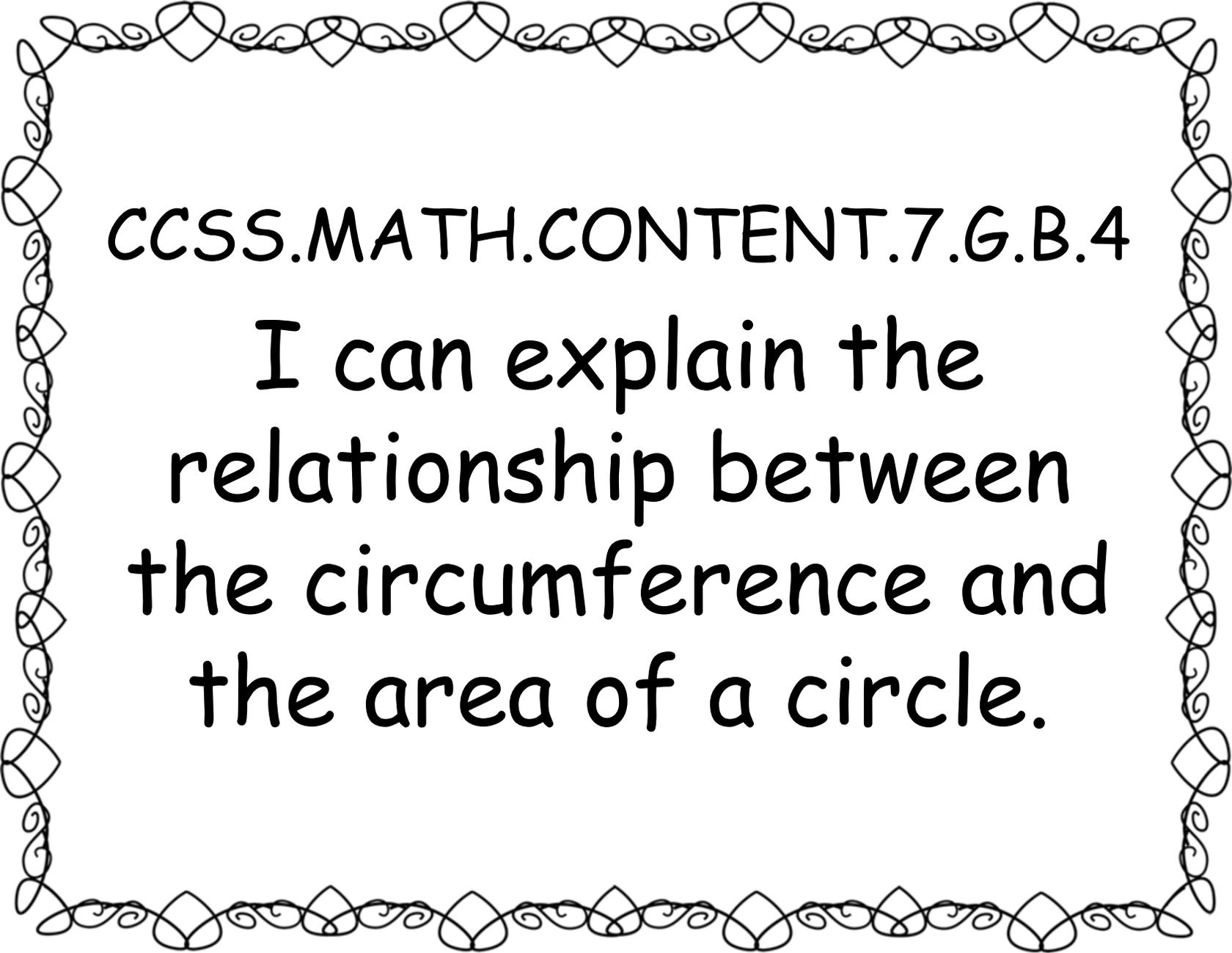
CCSS.MATH.CONTENT.7.G.A.3

I can name the two-dimensional figures that represent a particular slice of a three-dimensional figure.



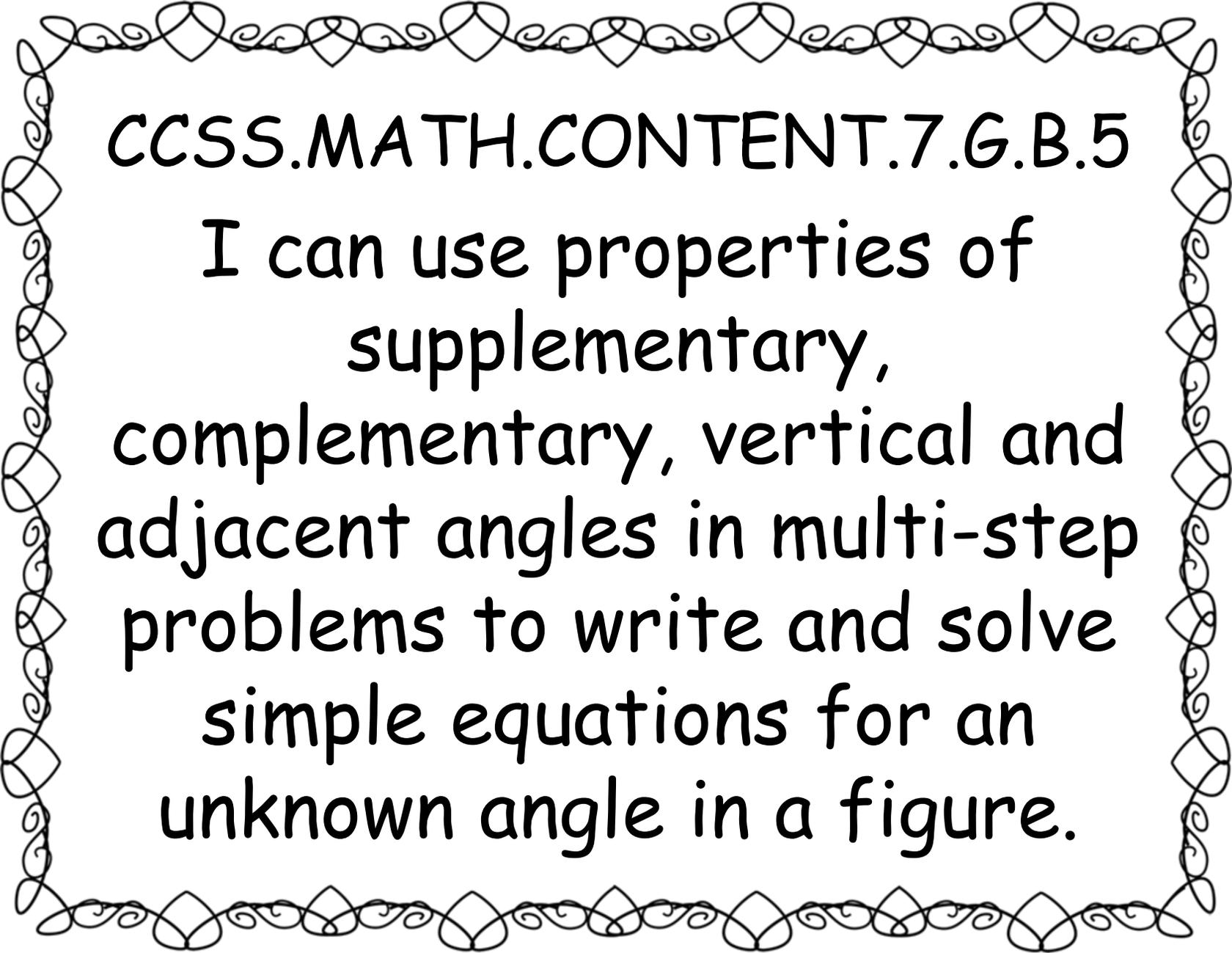
CCSS.MATH.CONTENT.7.G.B.4

I can state the
formulas for the area
and circumference of a
circle and use them to
solve problems.



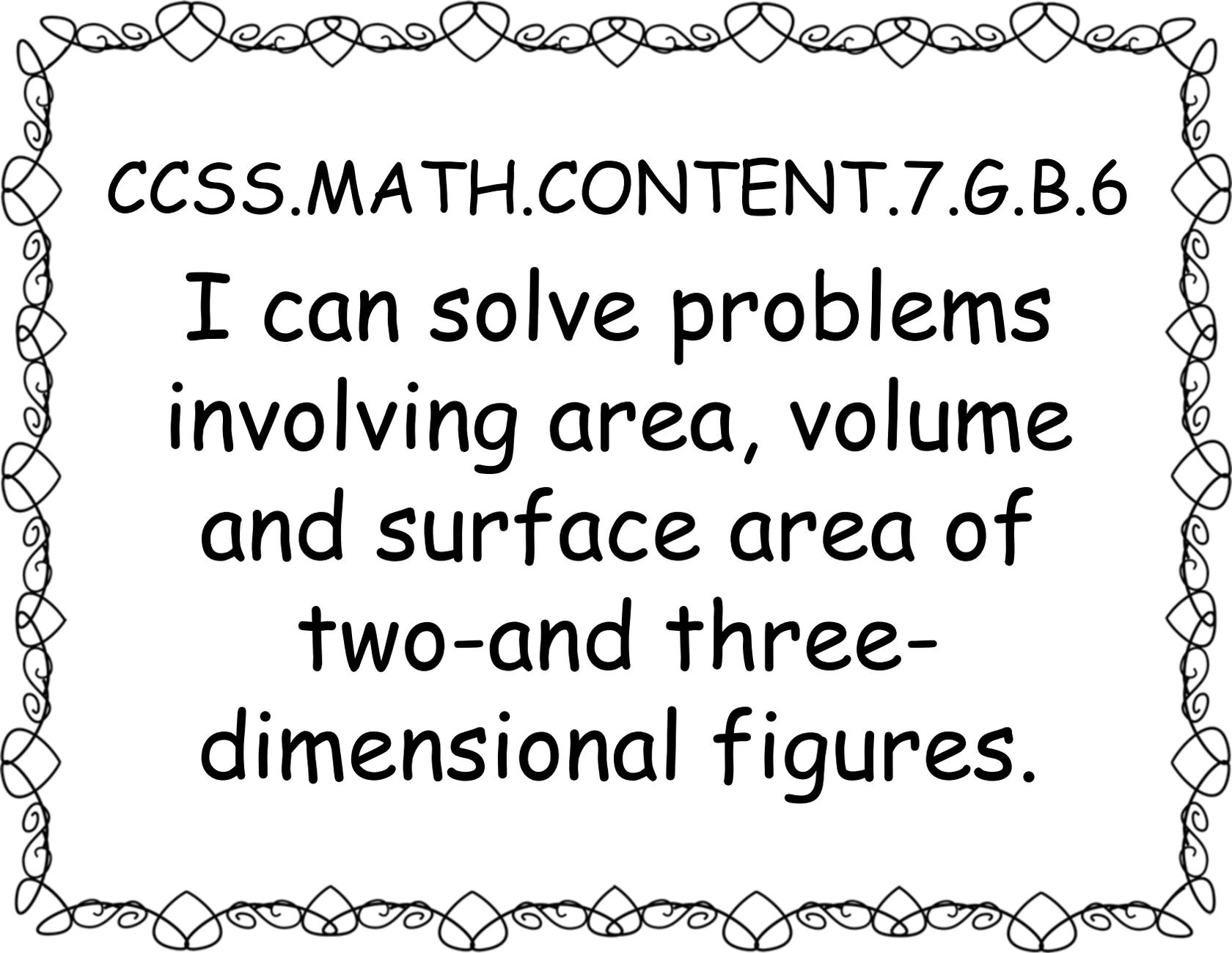
CCSS.MATH.CONTENT.7.G.B.4

I can explain the
relationship between
the circumference and
the area of a circle.



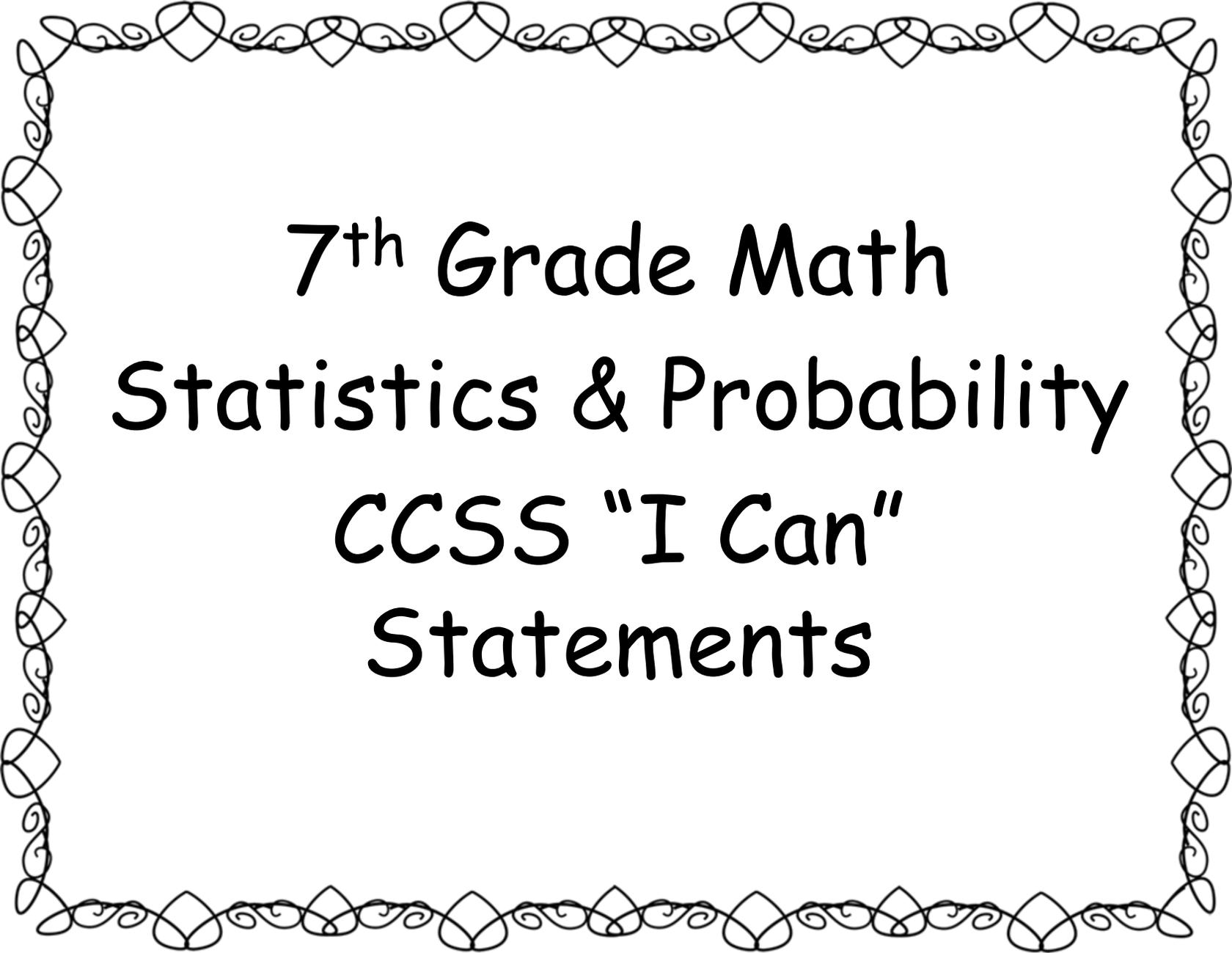
CCSS.MATH.CONTENT.7.G.B.5

I can use properties of
supplementary,
complementary, vertical and
adjacent angles in multi-step
problems to write and solve
simple equations for an
unknown angle in a figure.

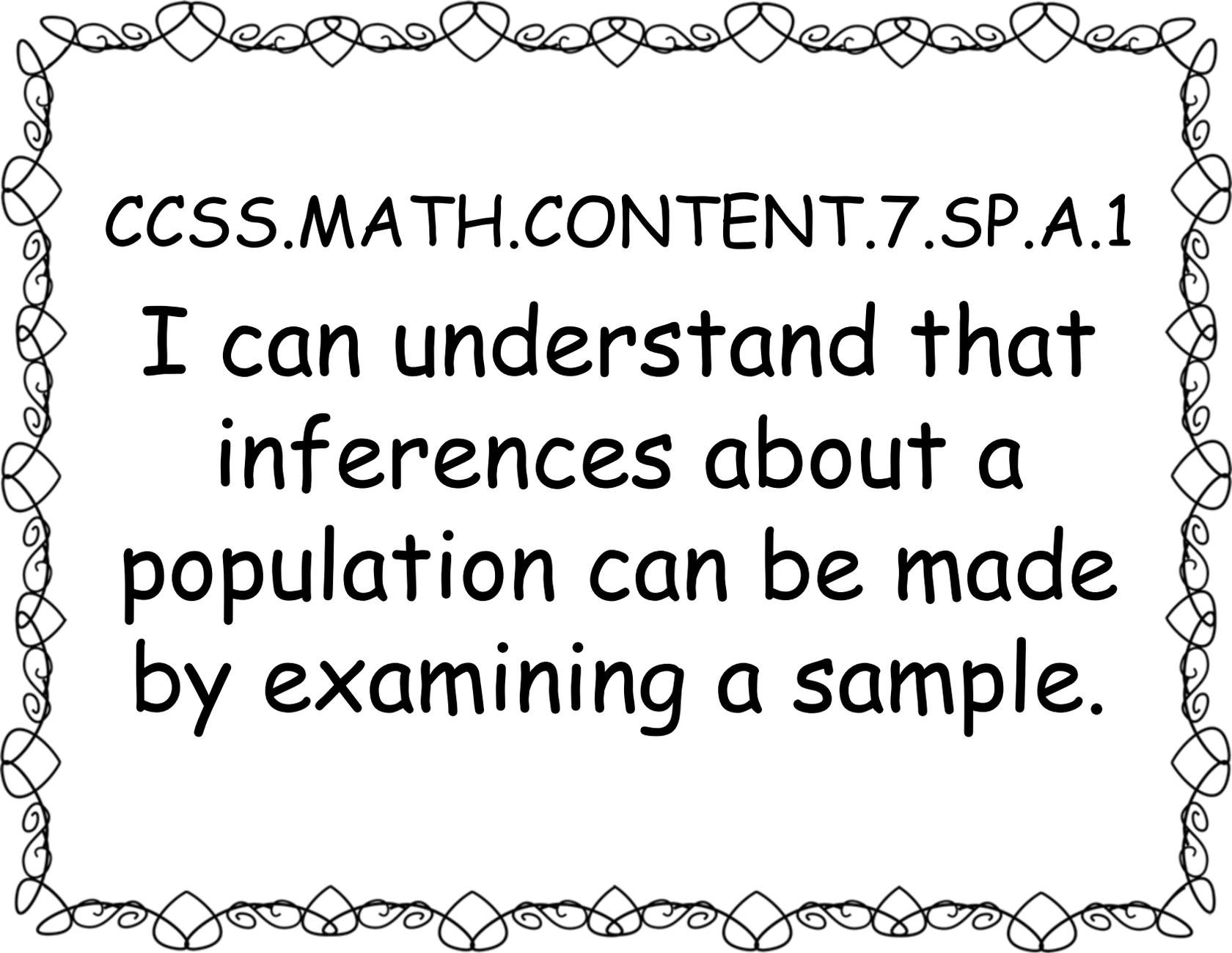


CCSS.MATH.CONTENT.7.G.B.6

I can solve problems
involving area, volume
and surface area of
two- and three-
dimensional figures.

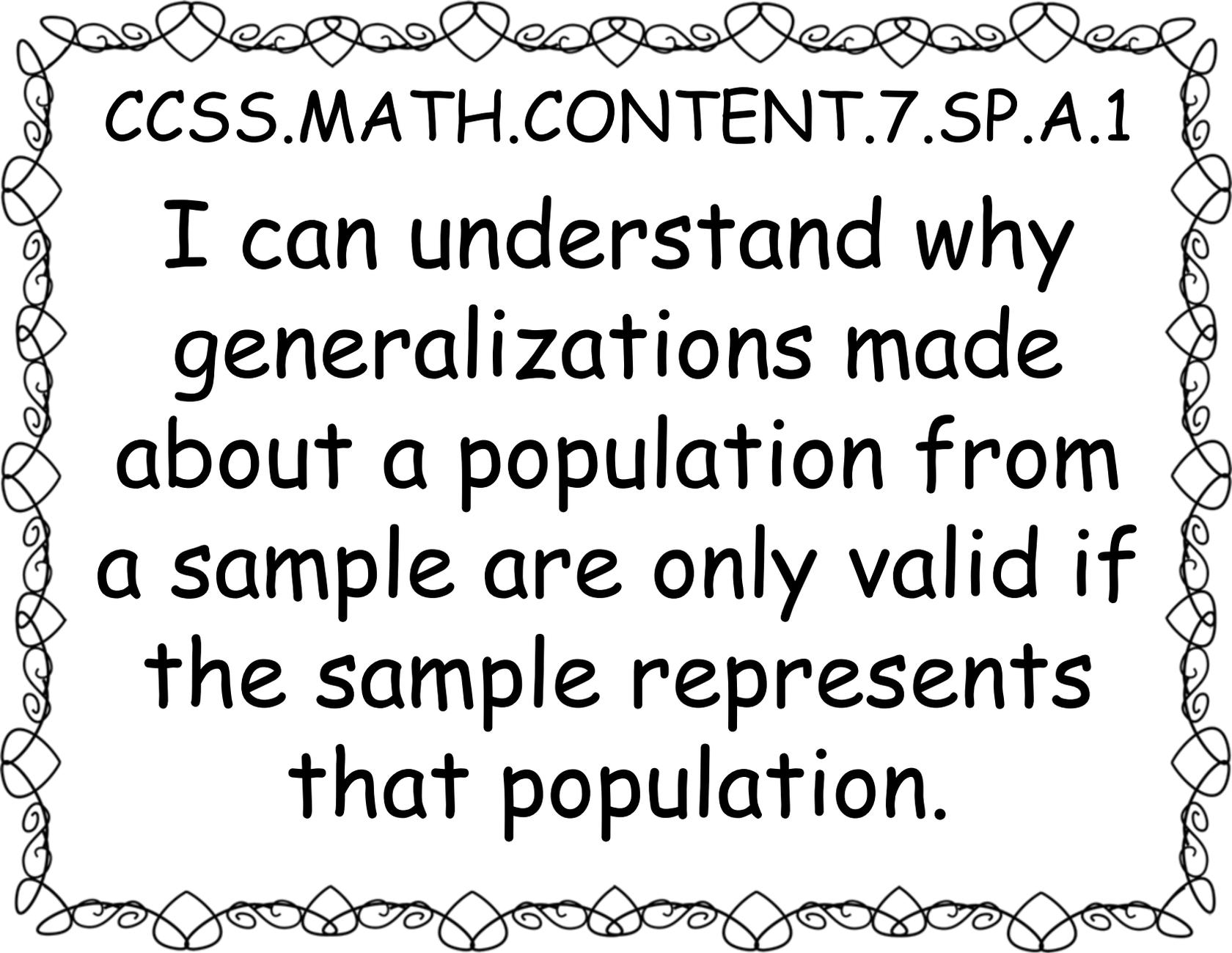


7th Grade Math
Statistics & Probability
CCSS "I Can"
Statements



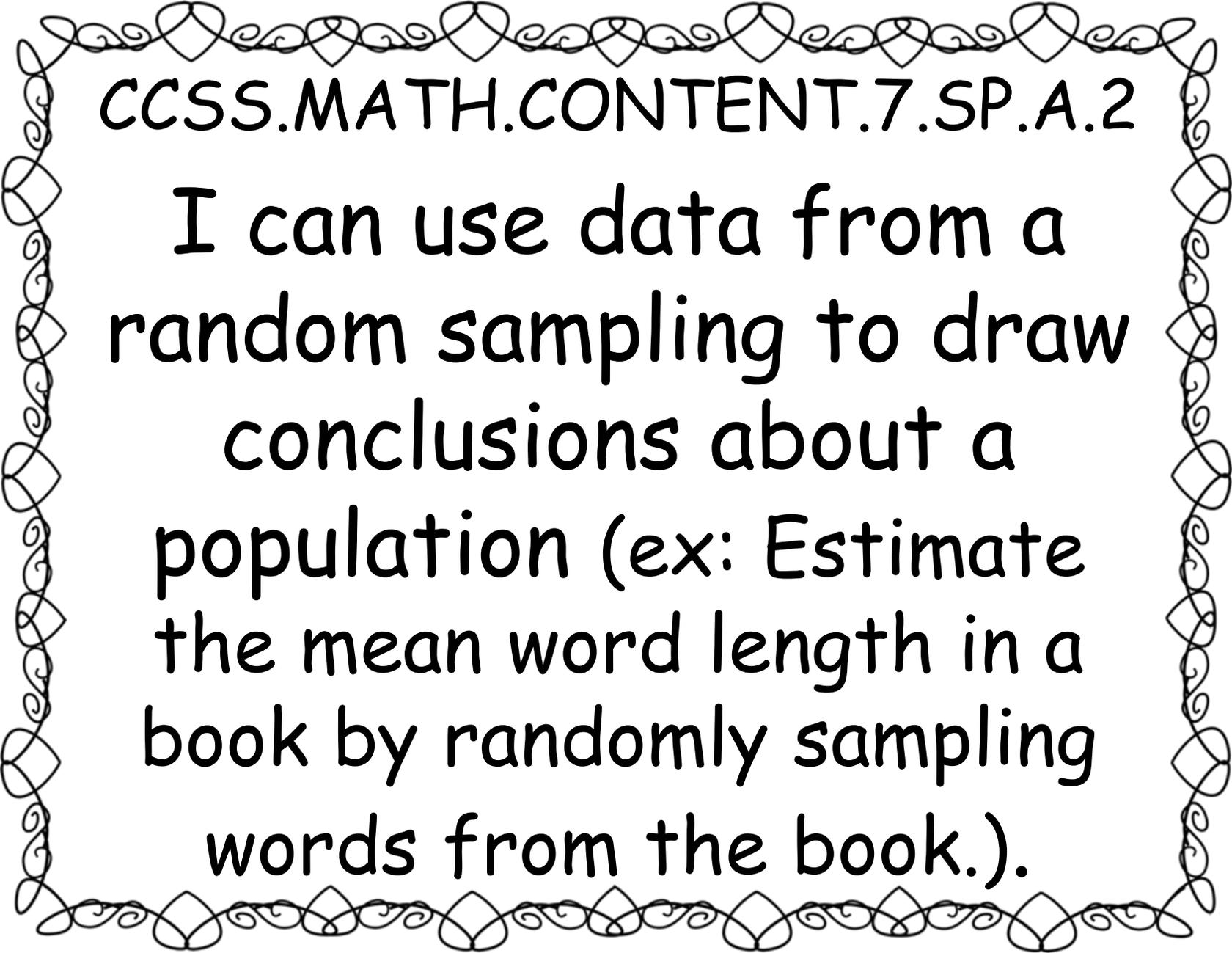
CCSS.MATH.CONTENT.7.SP.A.1

I can understand that
inferences about a
population can be made
by examining a sample.



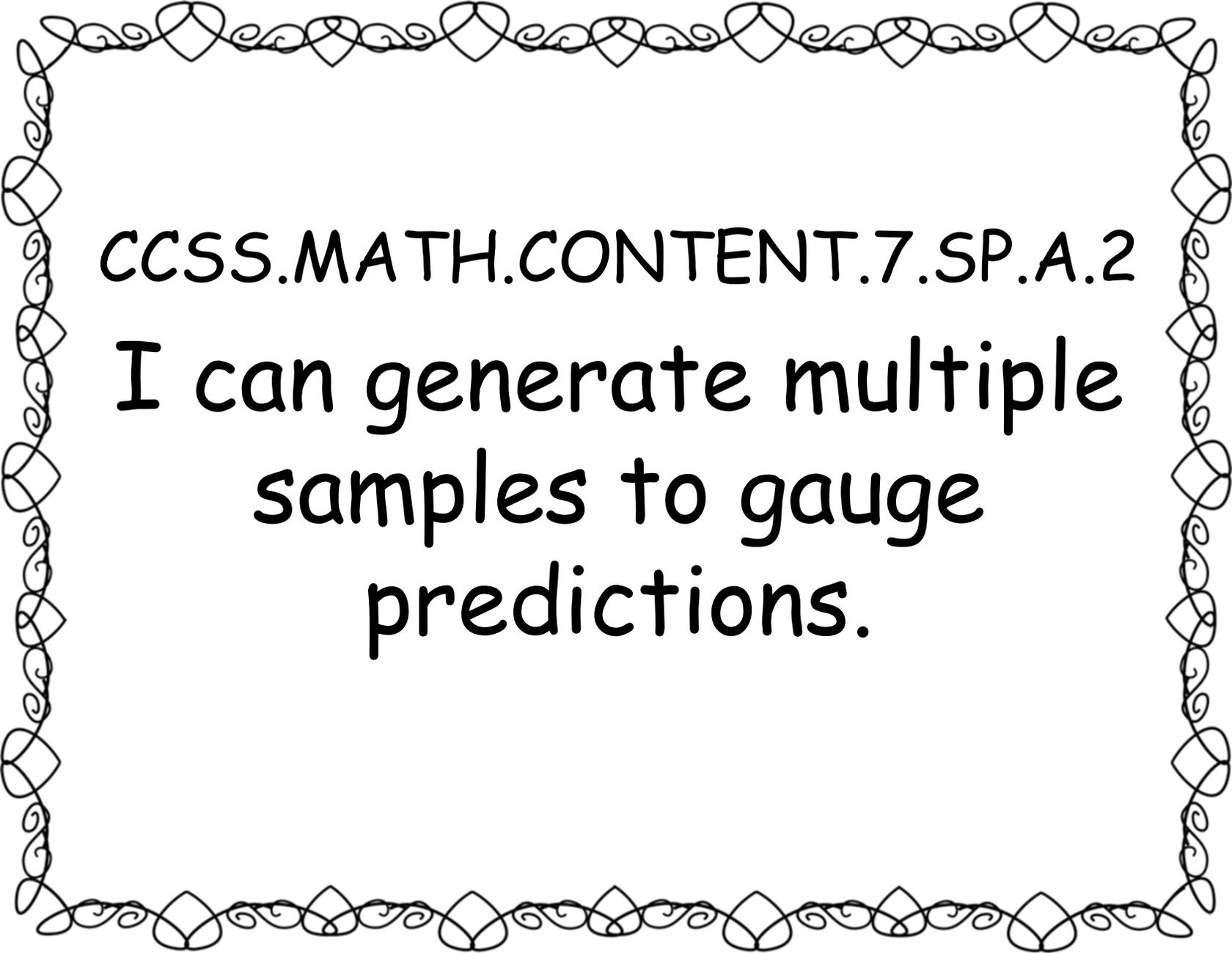
CCSS.MATH.CONTENT.7.SP.A.1

I can understand why generalizations made about a population from a sample are only valid if the sample represents that population.



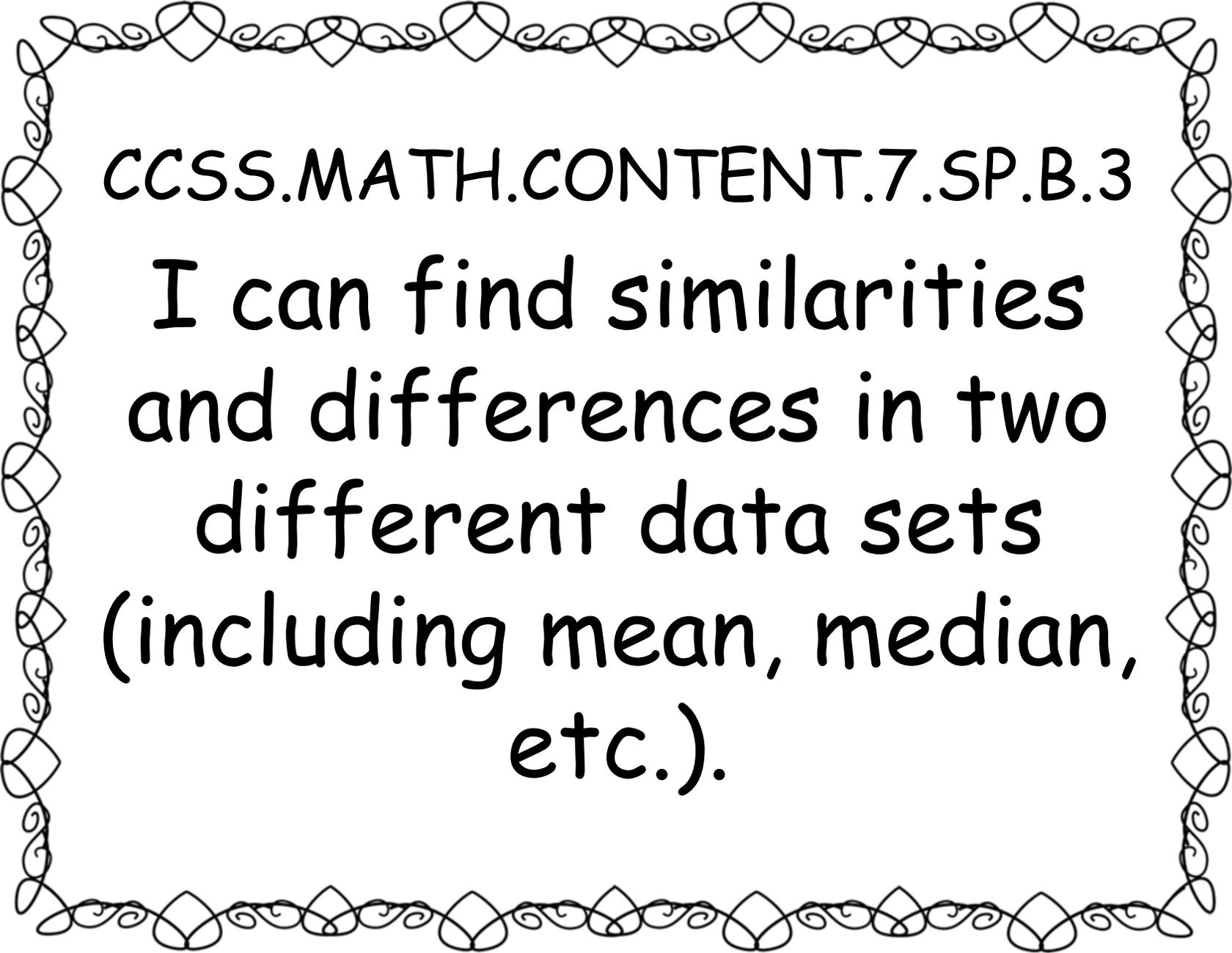
CCSS.MATH.CONTENT.7.SP.A.2

I can use data from a random sampling to draw conclusions about a population (ex: Estimate the mean word length in a book by randomly sampling words from the book.).



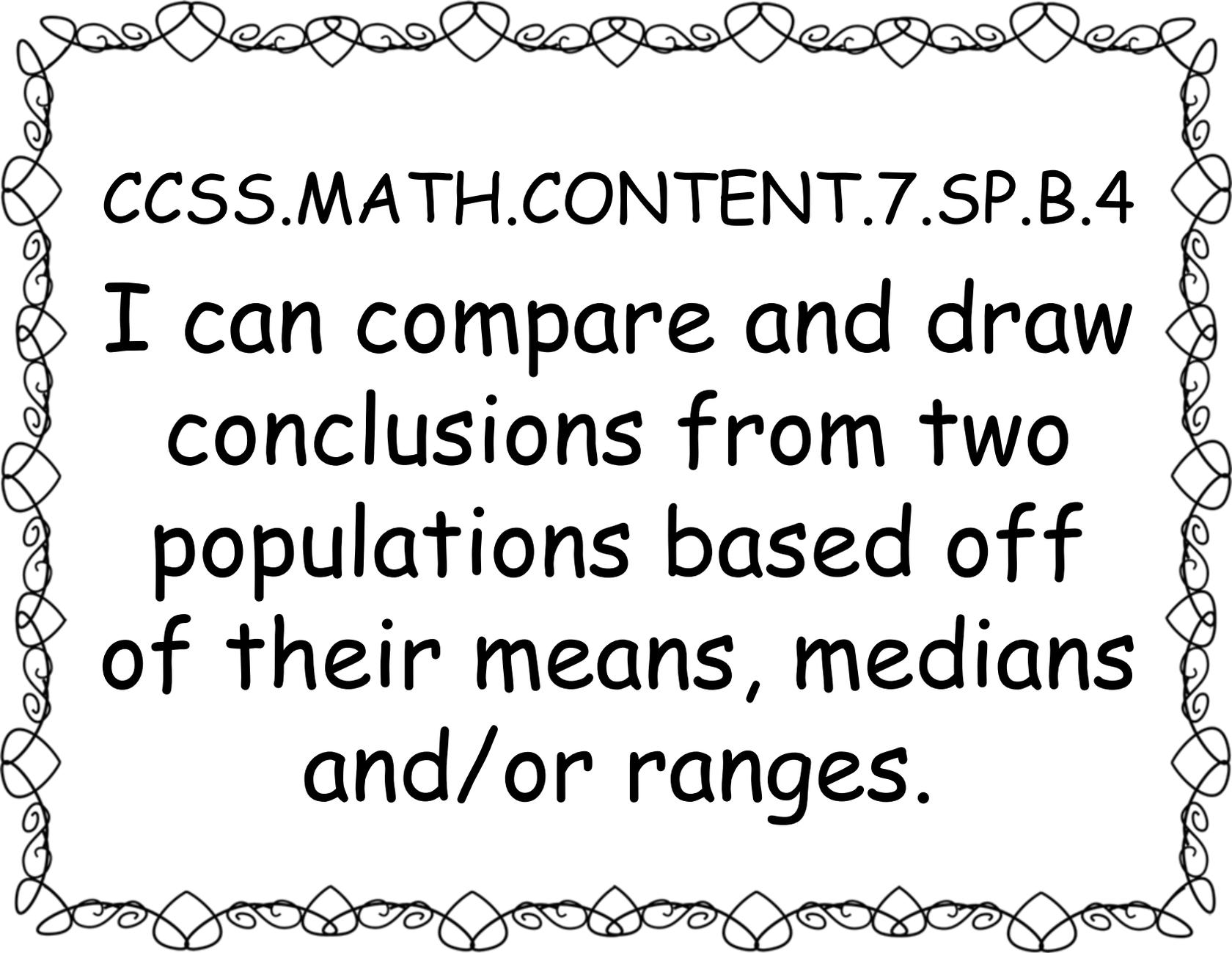
CCSS.MATH.CONTENT.7.SP.A.2

I can generate multiple
samples to gauge
predictions.



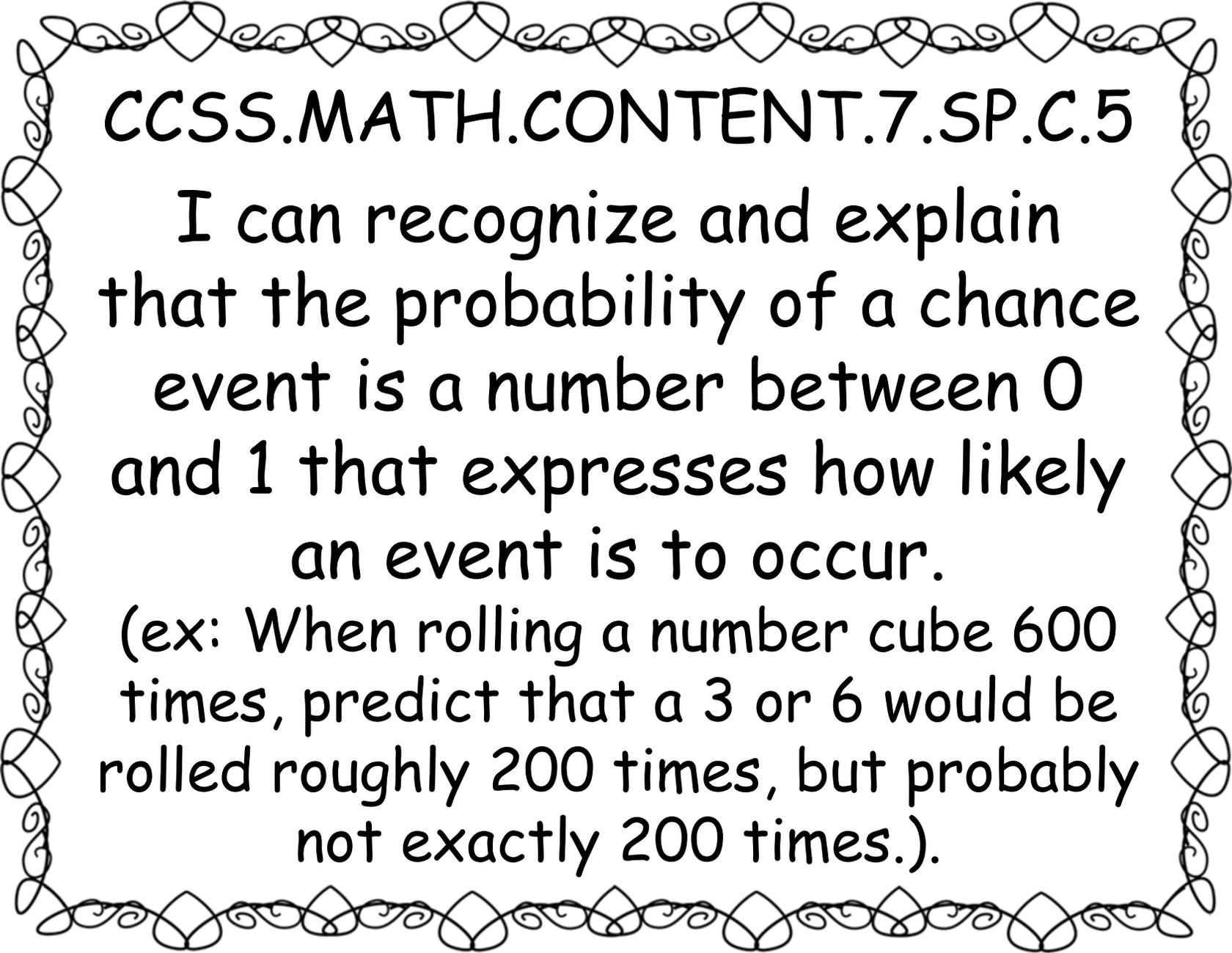
CCSS.MATH.CONTENT.7.SP.B.3

I can find similarities
and differences in two
different data sets
(including mean, median,
etc.).



CCSS.MATH.CONTENT.7.SP.B.4

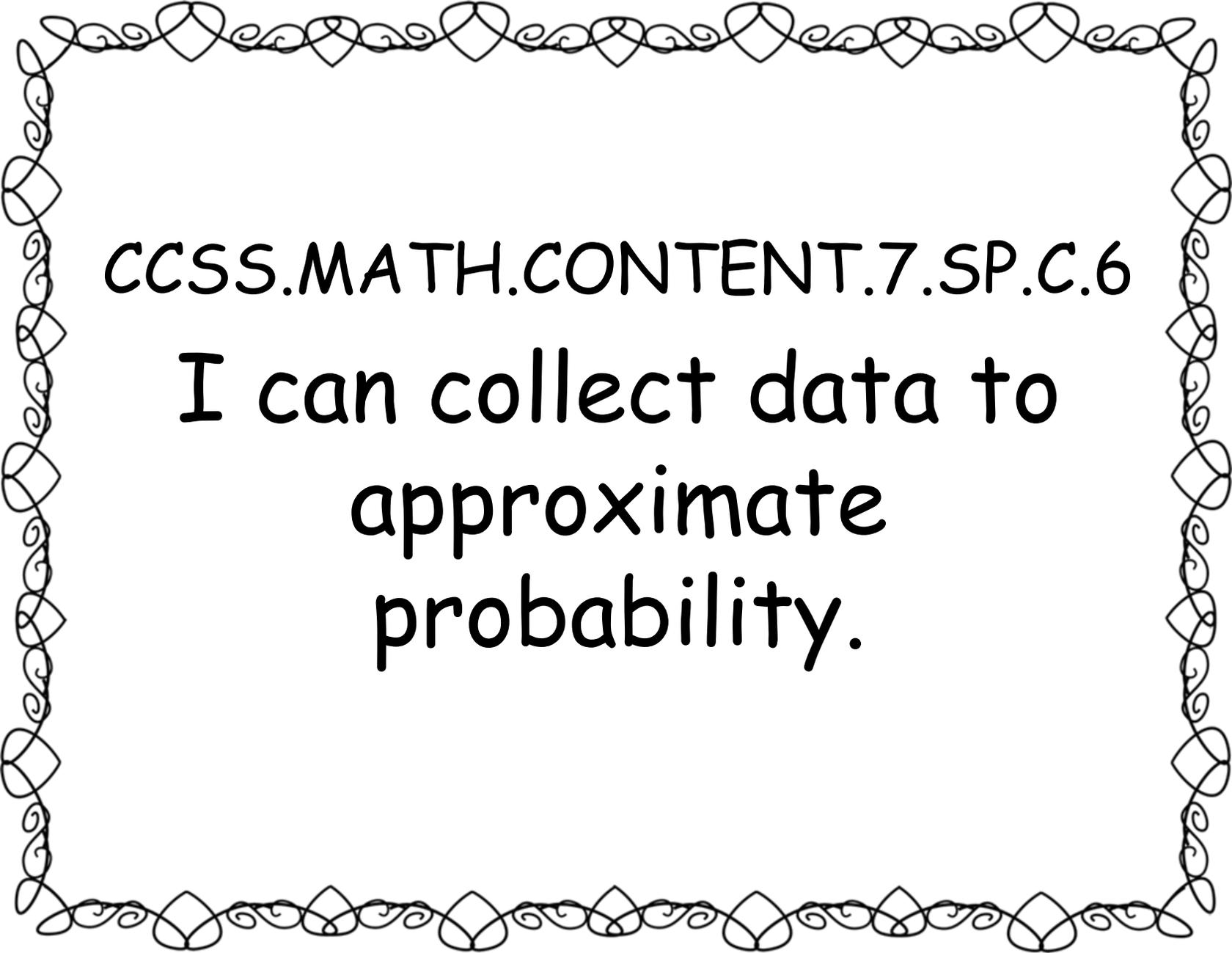
I can compare and draw conclusions from two populations based off of their means, medians and/or ranges.



CCSS.MATH.CONTENT.7.SP.C.5

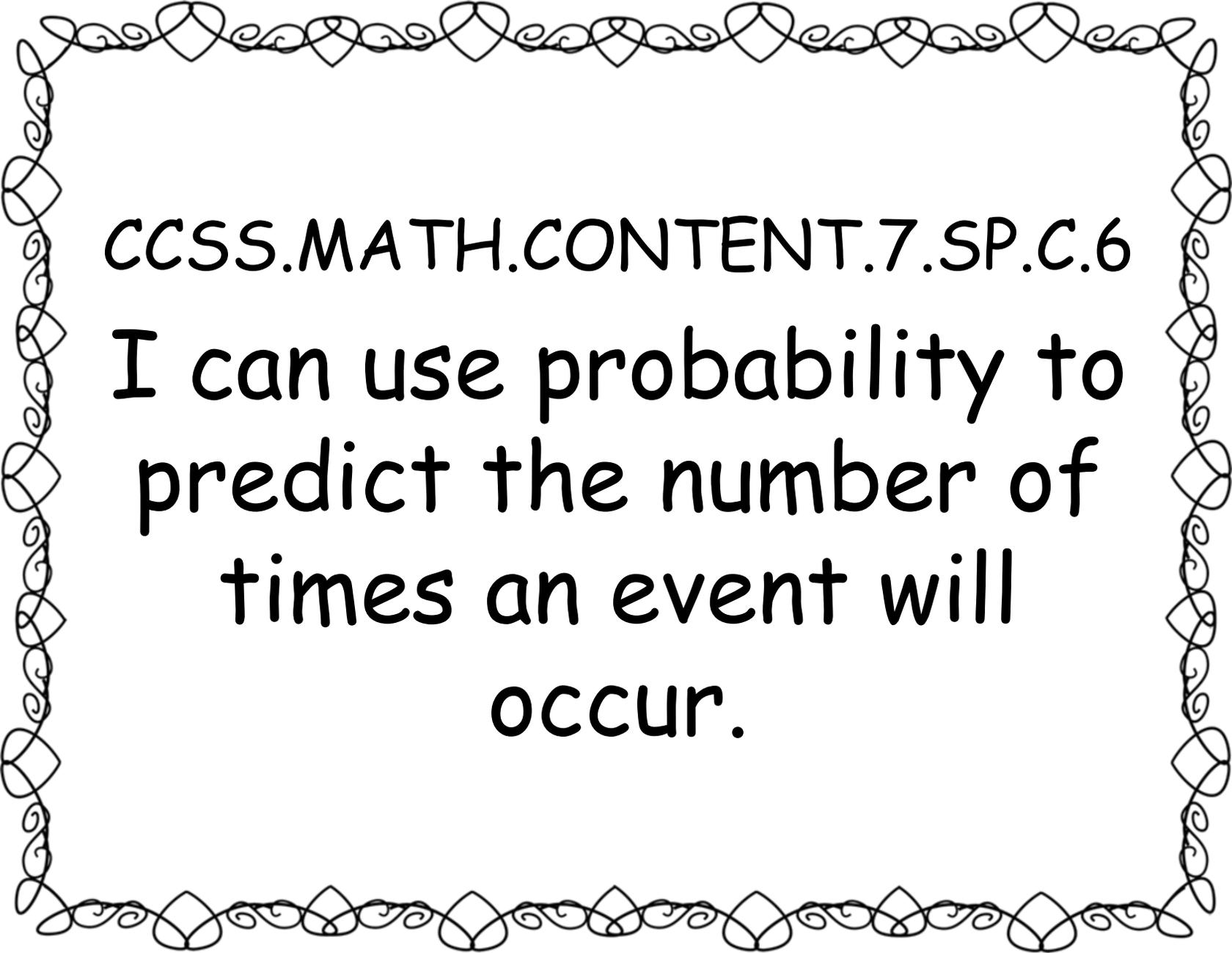
I can recognize and explain that the probability of a chance event is a number between 0 and 1 that expresses how likely an event is to occur.

(ex: When rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times, but probably not exactly 200 times.)



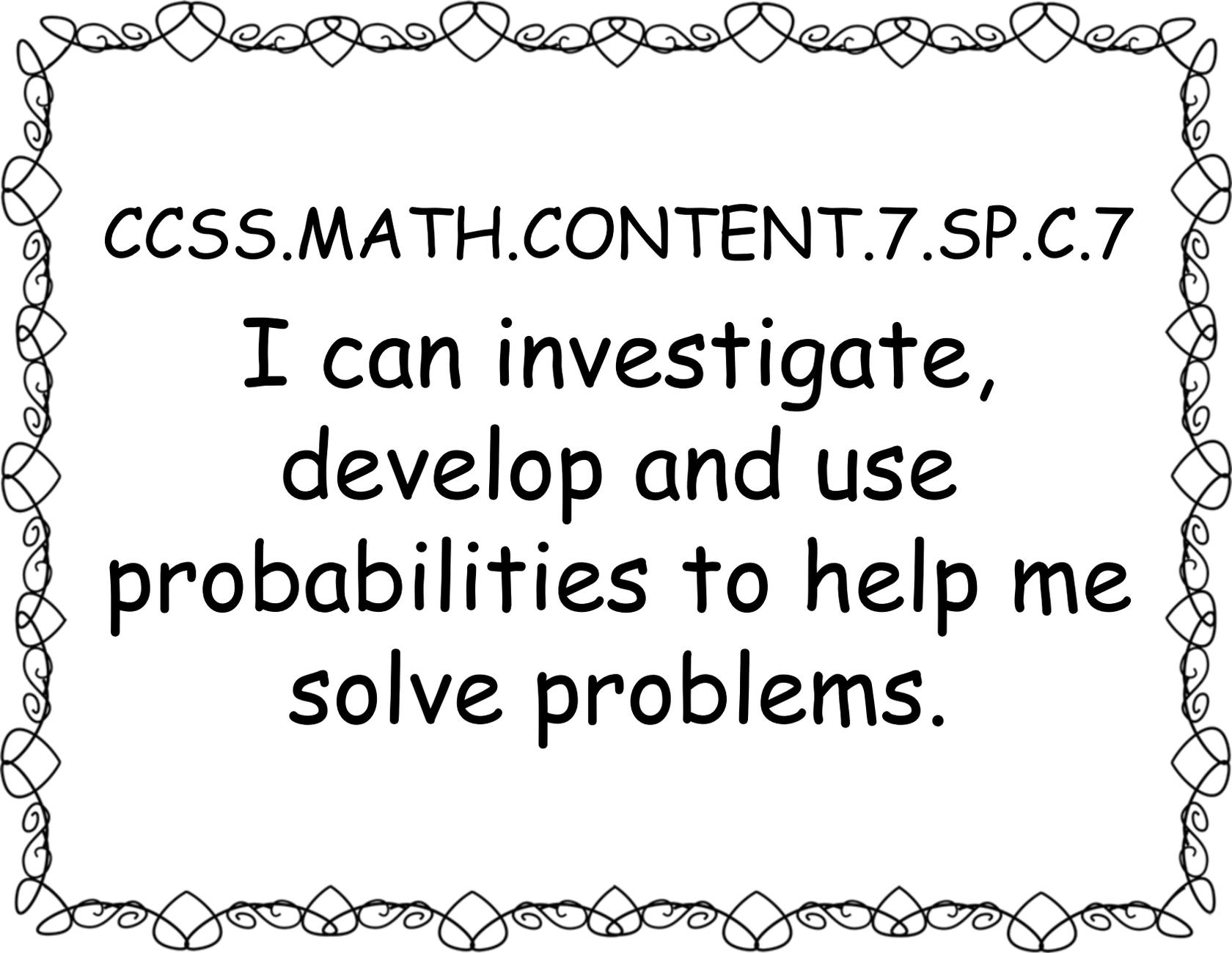
CCSS.MATH.CONTENT.7.SP.C.6

I can collect data to
approximate
probability.



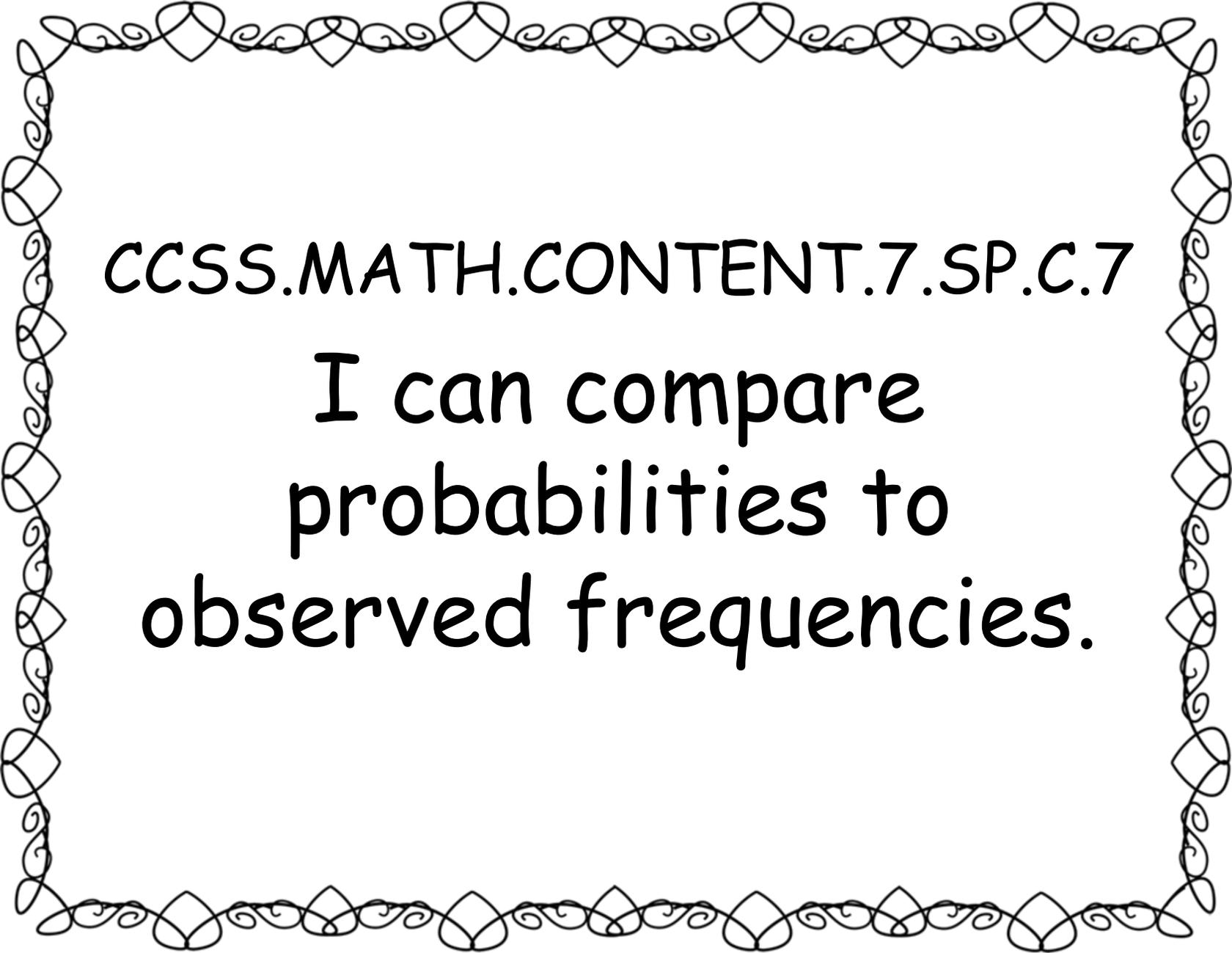
CCSS.MATH.CONTENT.7.SP.C.6

I can use probability to
predict the number of
times an event will
occur.



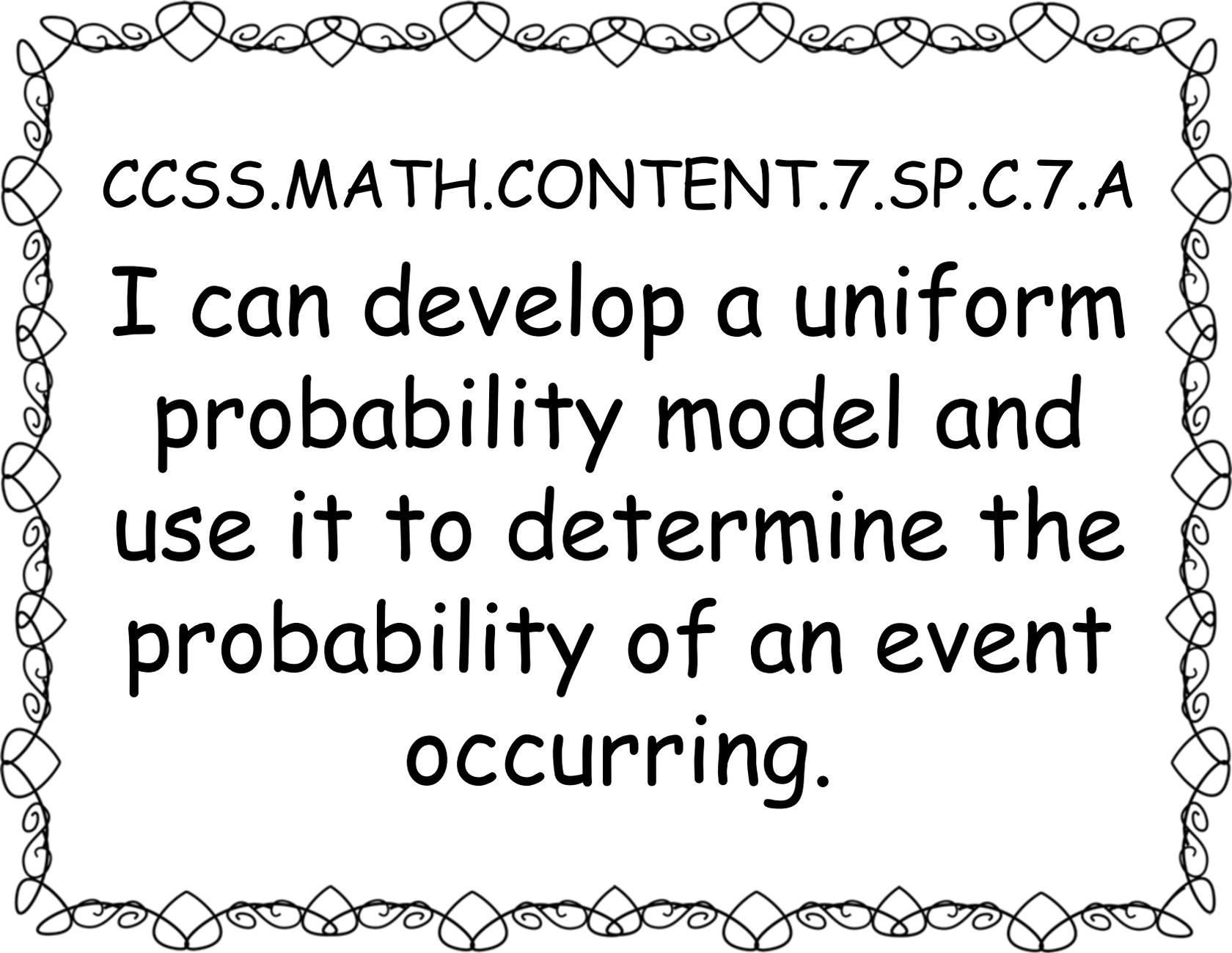
CCSS.MATH.CONTENT.7.SP.C.7

I can investigate,
develop and use
probabilities to help me
solve problems.



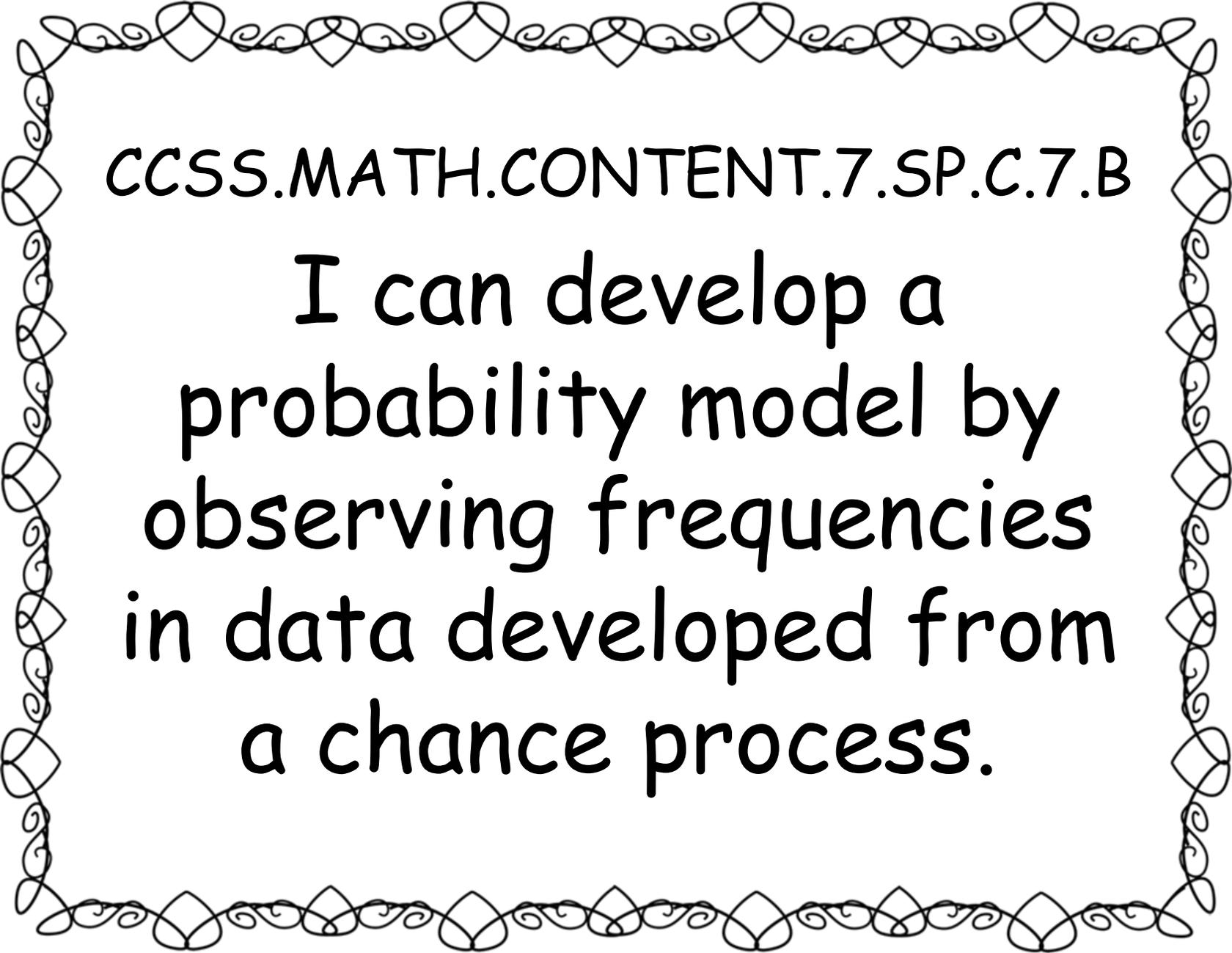
CCSS.MATH.CONTENT.7.SP.C.7

I can compare
probabilities to
observed frequencies.



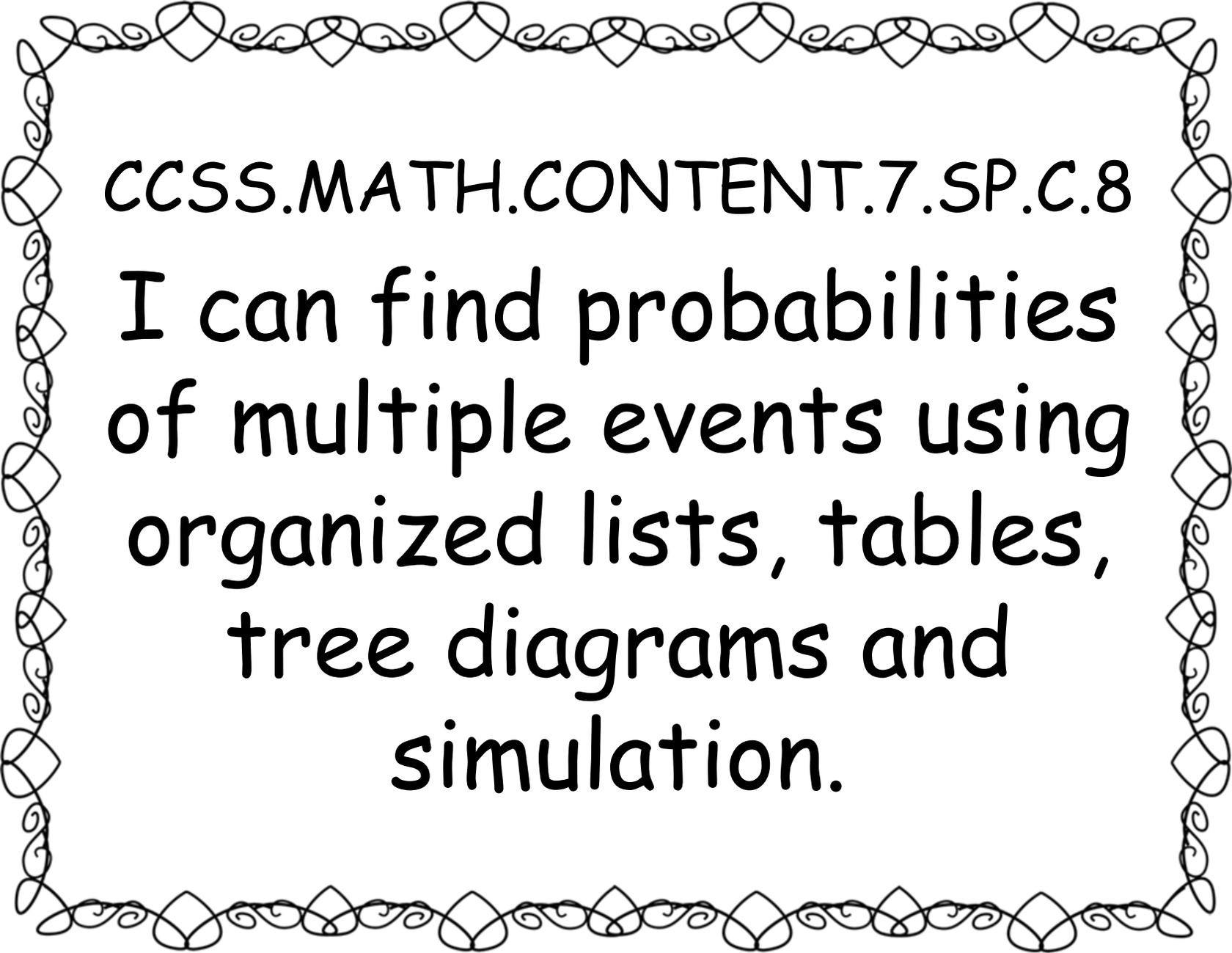
CCSS.MATH.CONTENT.7.SP.C.7.A

I can develop a uniform probability model and use it to determine the probability of an event occurring.



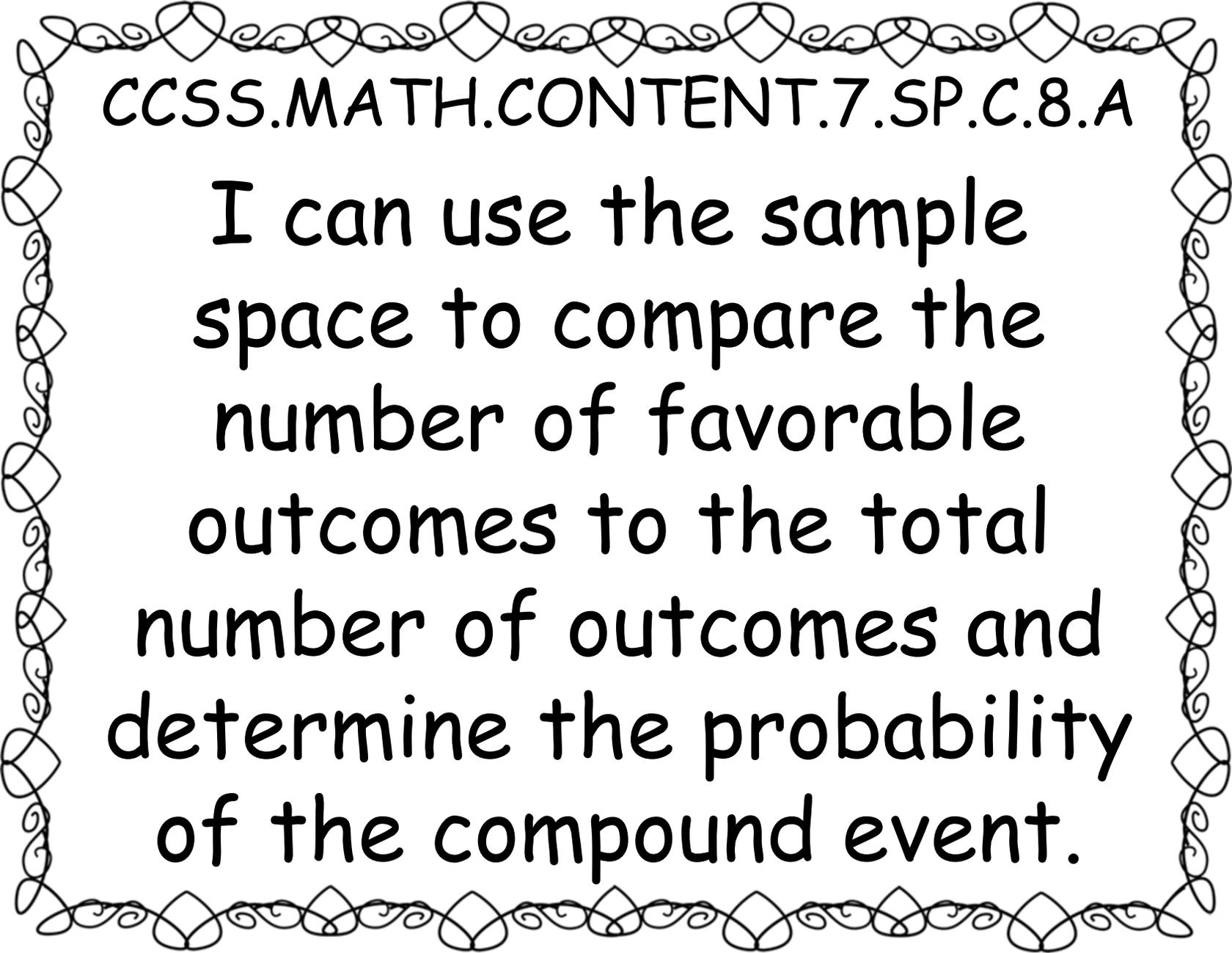
CCSS.MATH.CONTENT.7.SP.C.7.B

I can develop a
probability model by
observing frequencies
in data developed from
a chance process.



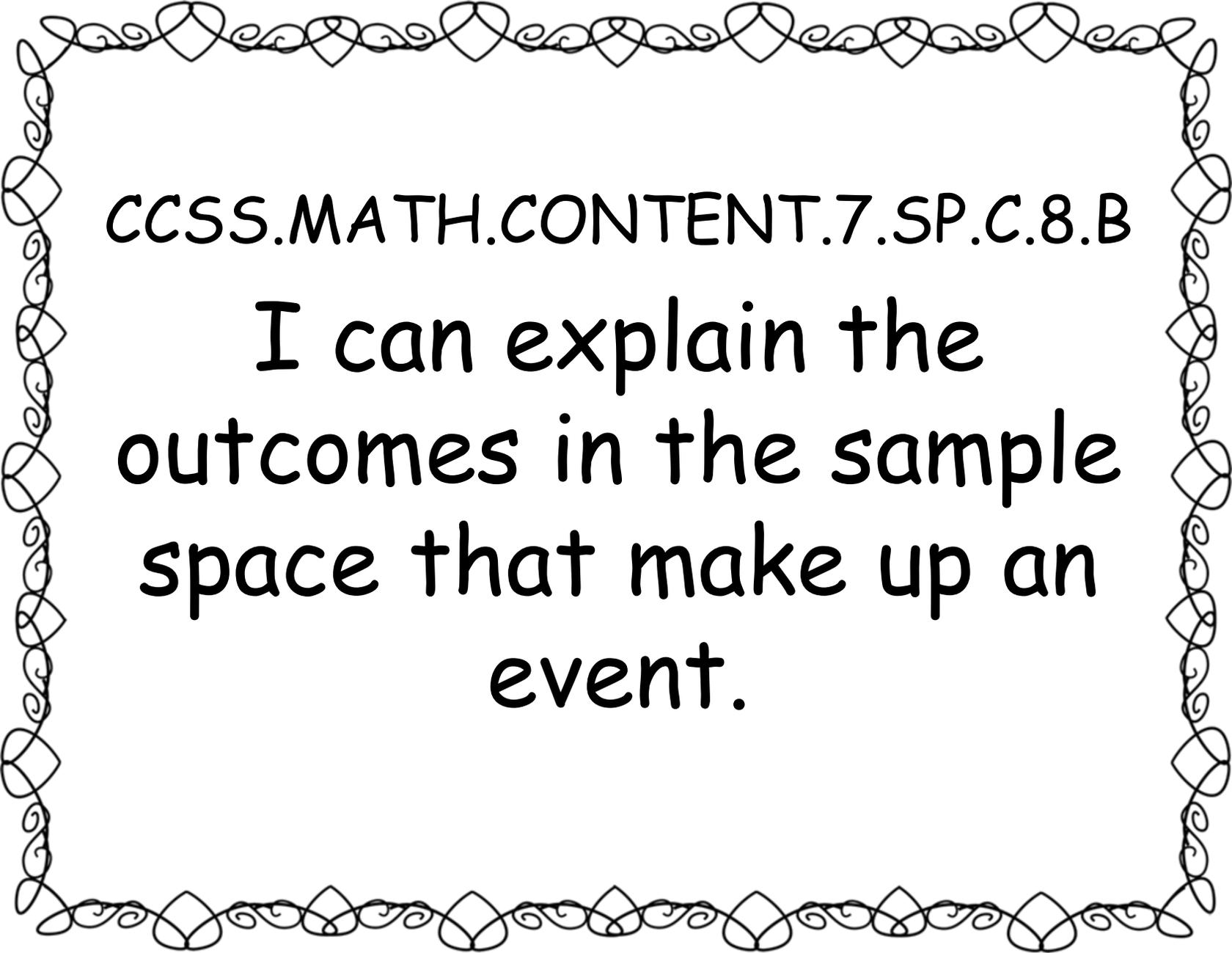
CCSS.MATH.CONTENT.7.SP.C.8

I can find probabilities of multiple events using organized lists, tables, tree diagrams and simulation.



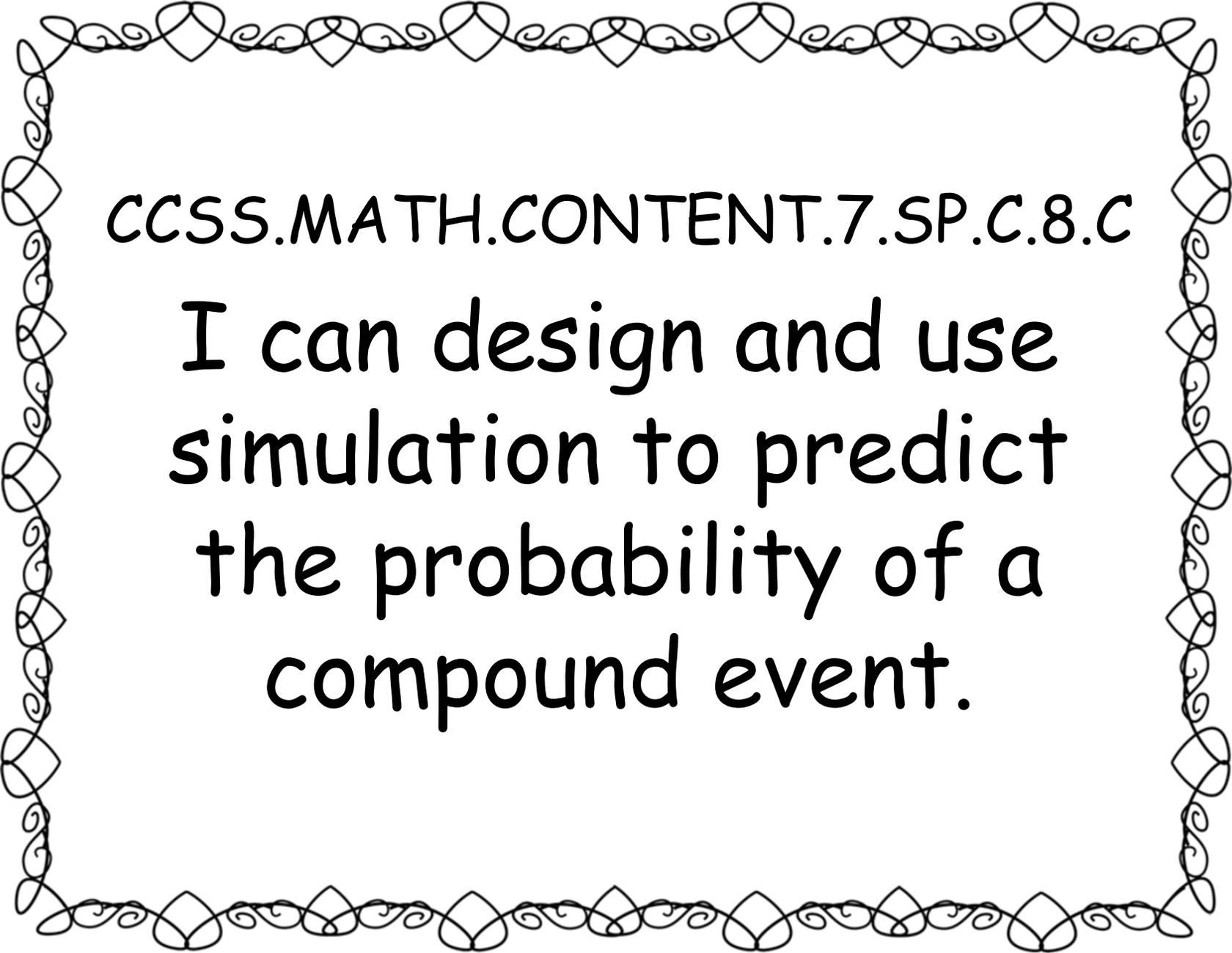
CCSS.MATH.CONTENT.7.SP.C.8.A

I can use the sample space to compare the number of favorable outcomes to the total number of outcomes and determine the probability of the compound event.



CCSS.MATH.CONTENT.7.SP.C.8.B

I can explain the
outcomes in the sample
space that make up an
event.



CCSS.MATH.CONTENT.7.SP.C.8.C

I can design and use
simulation to predict
the probability of a
compound event.