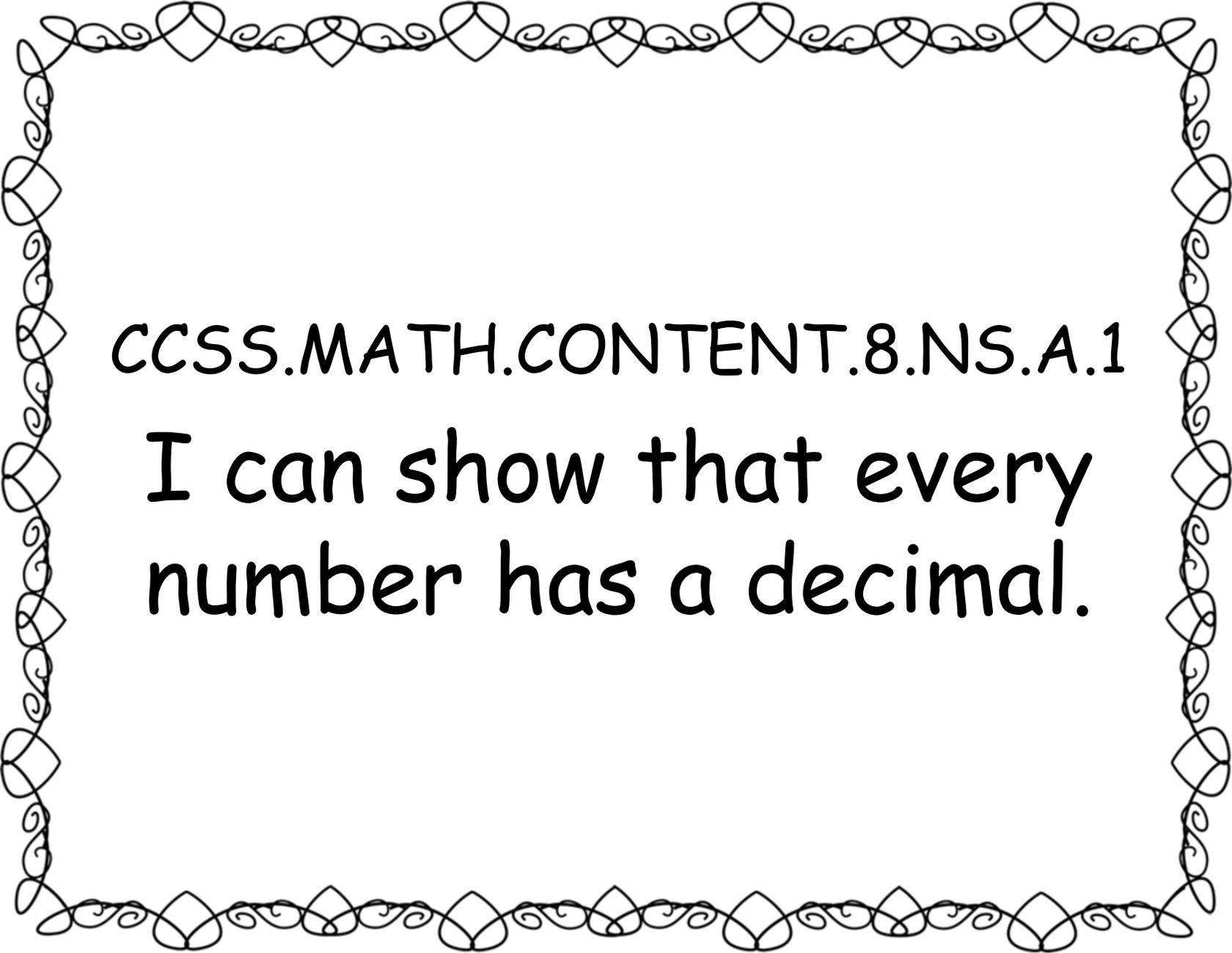
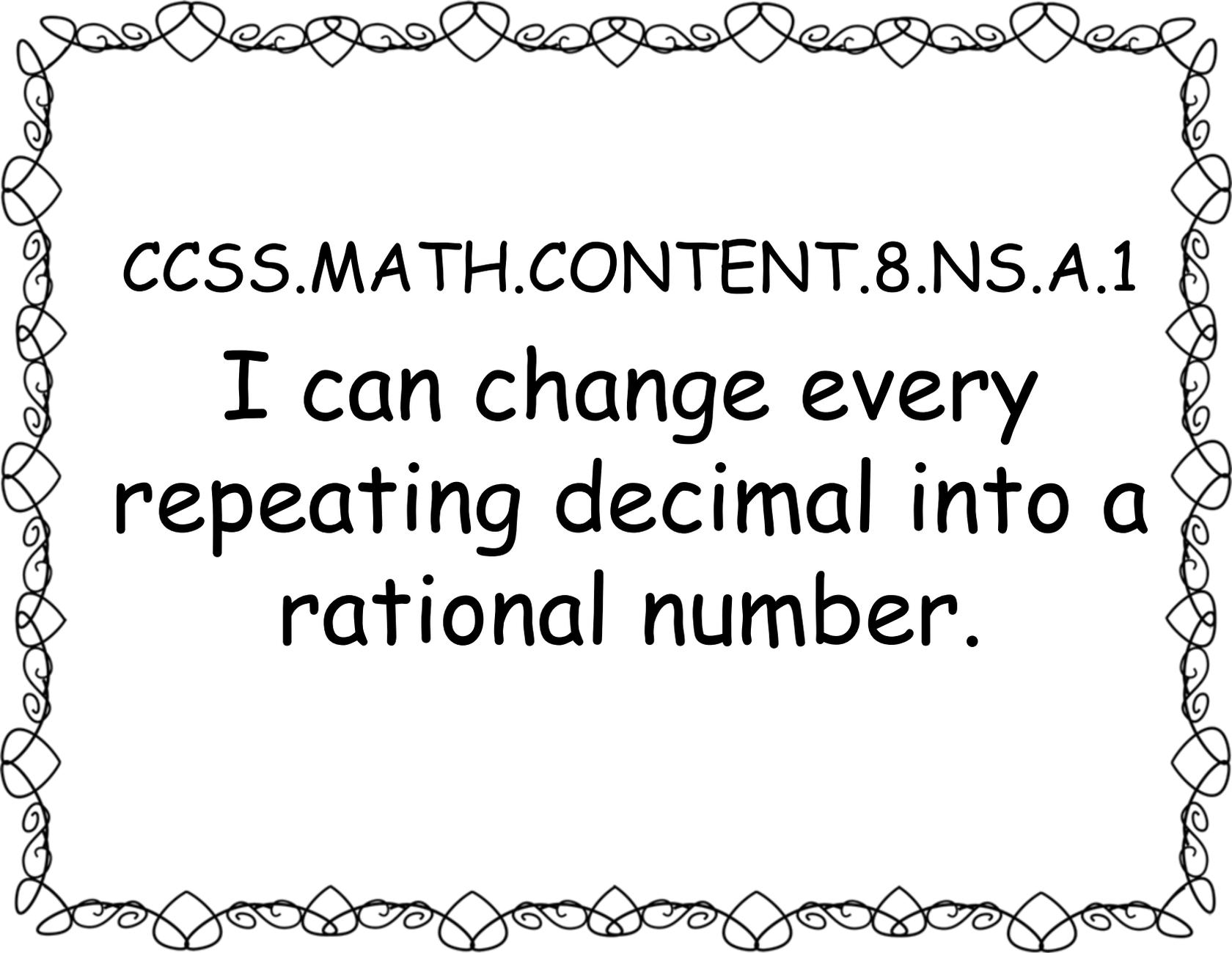


8th Grade Math
The Number System
CCSS "I Can"
Statements



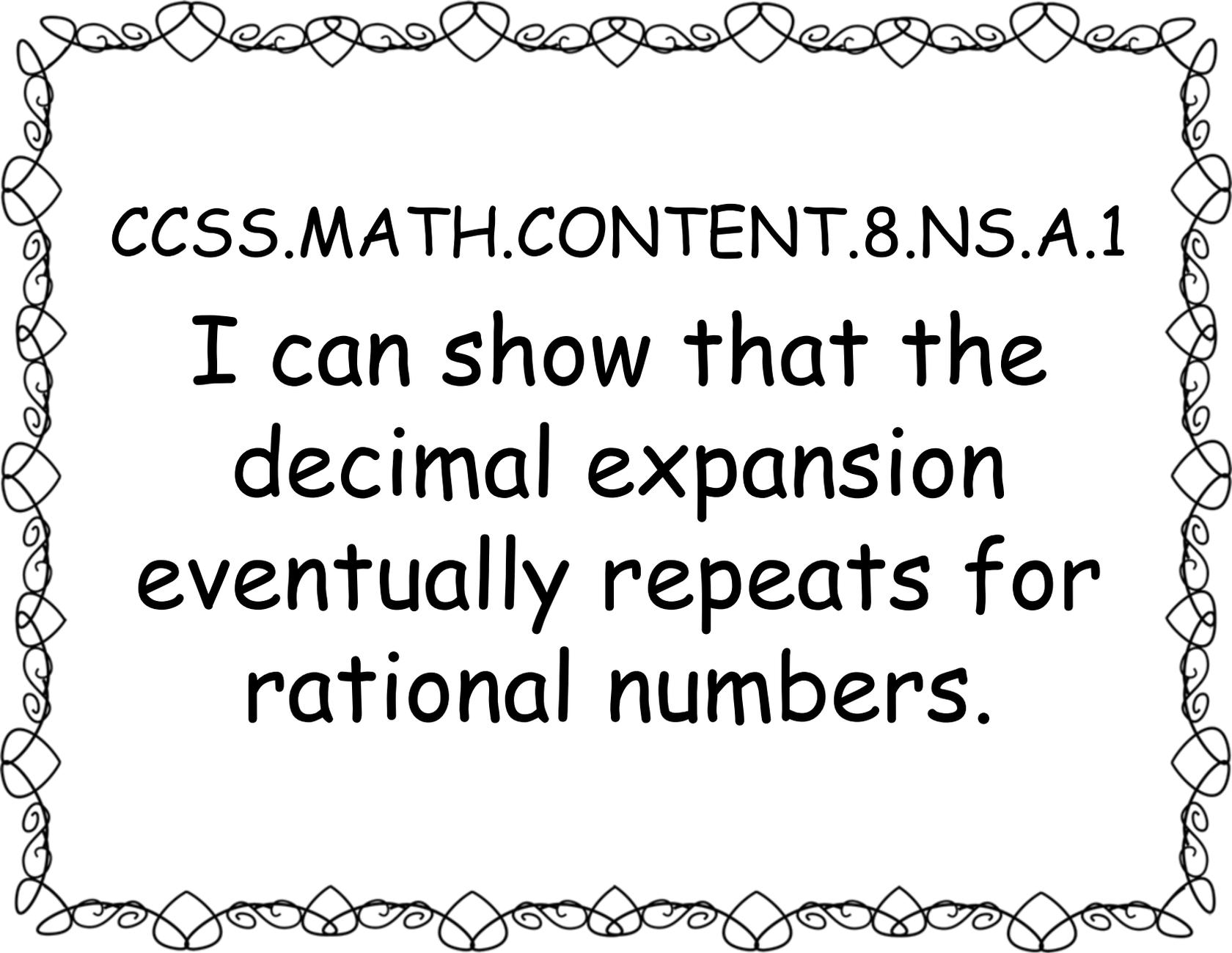
CCSS.MATH.CONTENT.8.NS.A.1

I can show that every
number has a decimal.



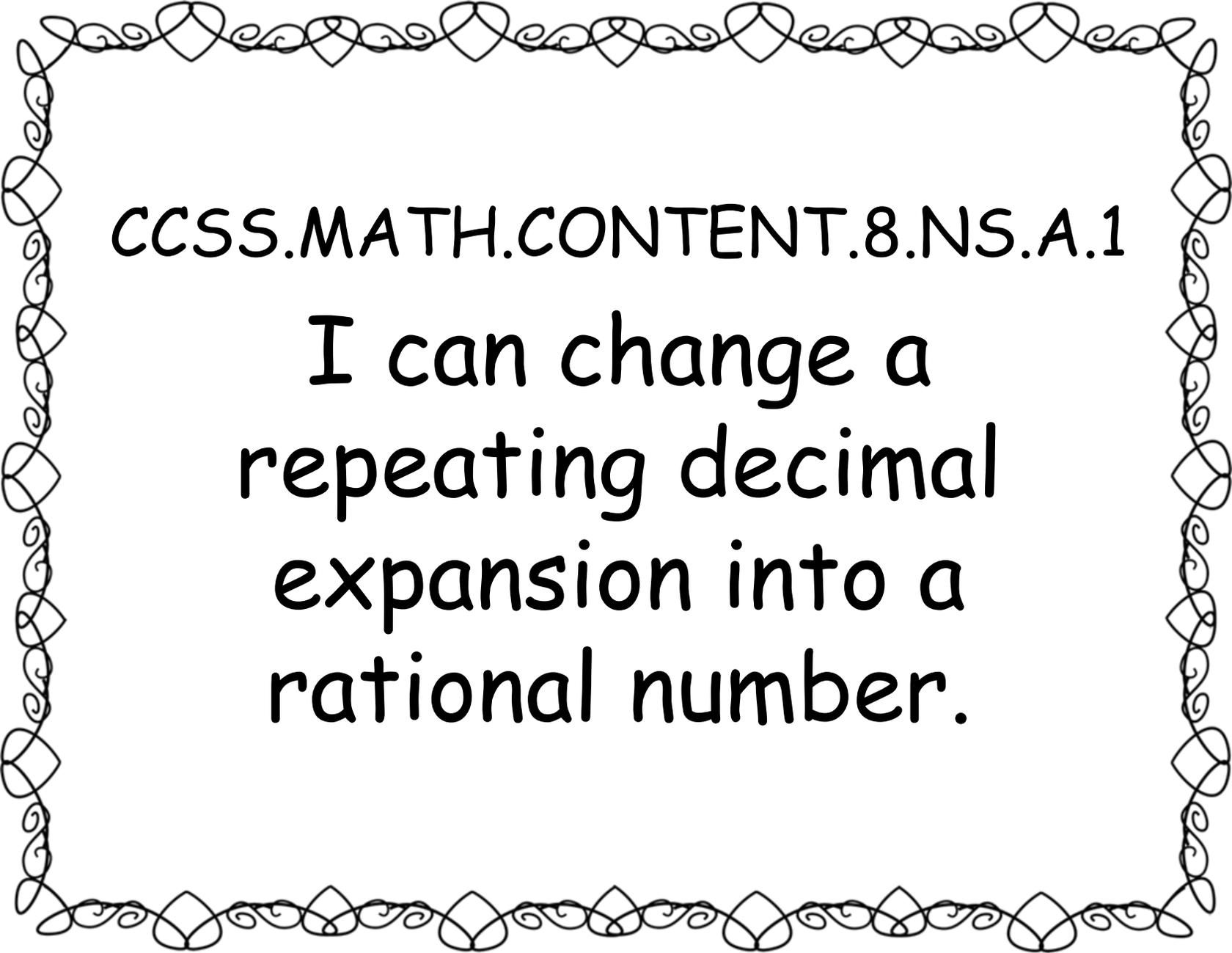
CCSS.MATH.CONTENT.8.NS.A.1

I can change every
repeating decimal into a
rational number.



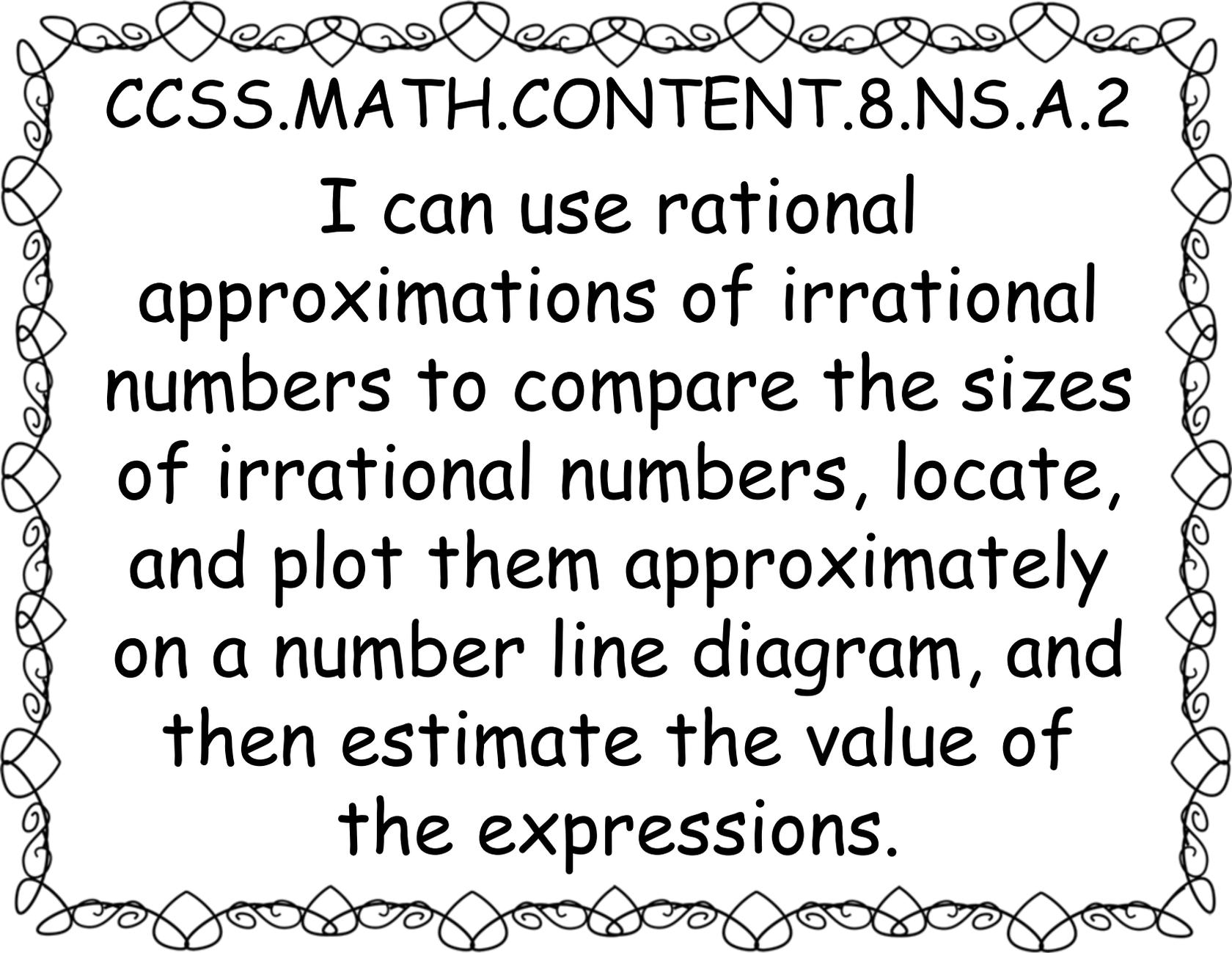
CCSS.MATH.CONTENT.8.NS.A.1

I can show that the
decimal expansion
eventually repeats for
rational numbers.



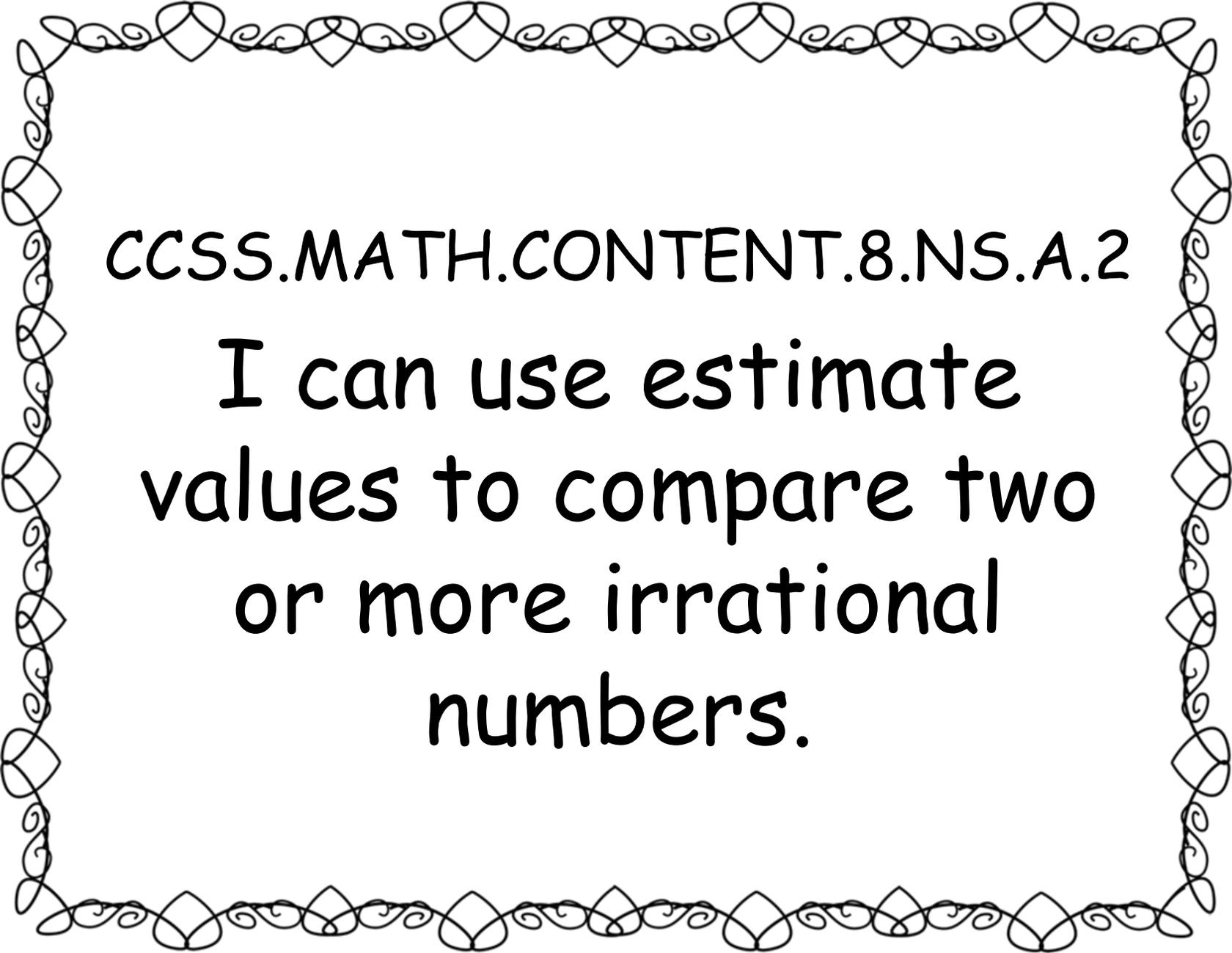
CCSS.MATH.CONTENT.8.NS.A.1

I can change a
repeating decimal
expansion into a
rational number.



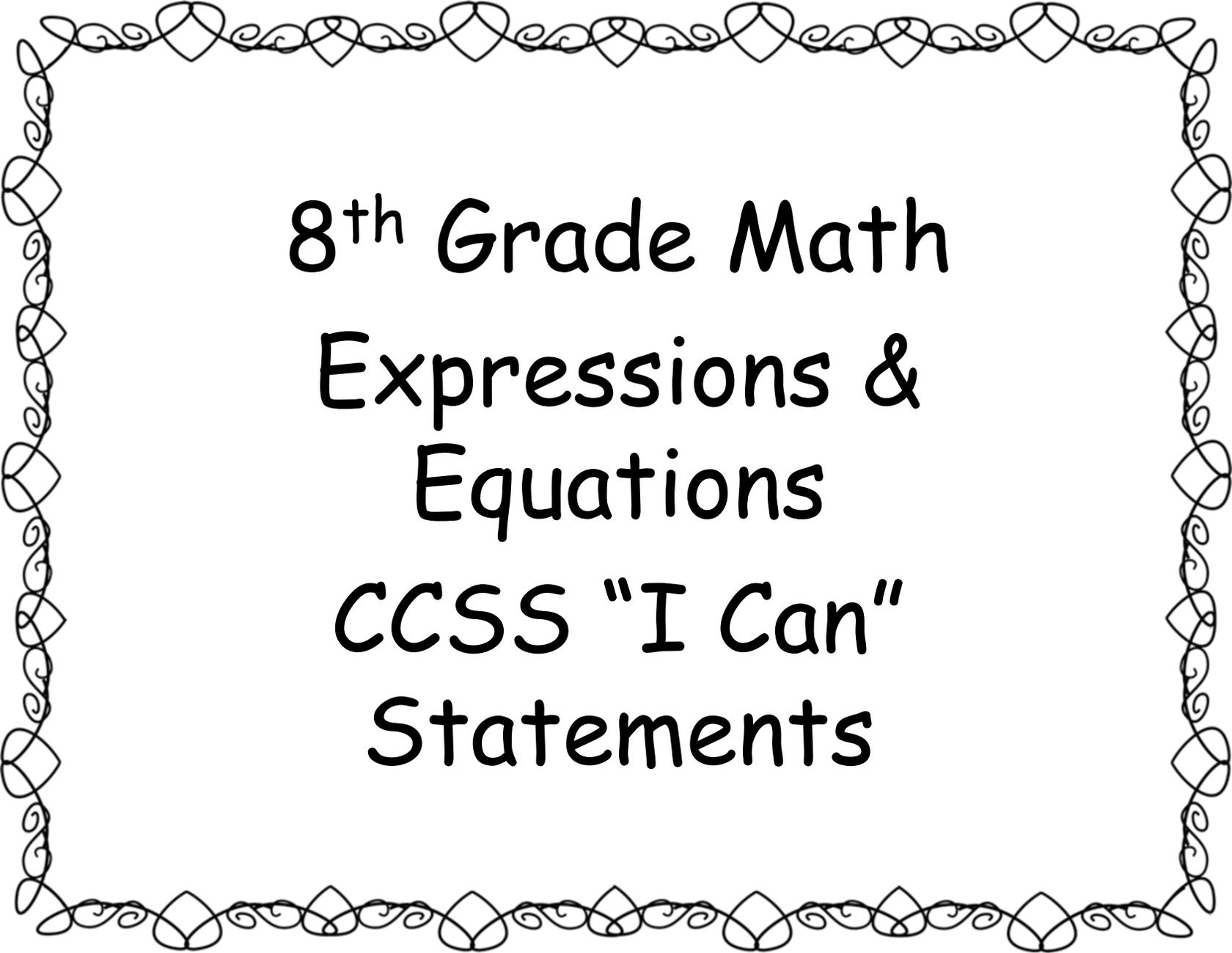
CCSS.MATH.CONTENT.8.NS.A.2

I can use rational approximations of irrational numbers to compare the sizes of irrational numbers, locate, and plot them approximately on a number line diagram, and then estimate the value of the expressions.

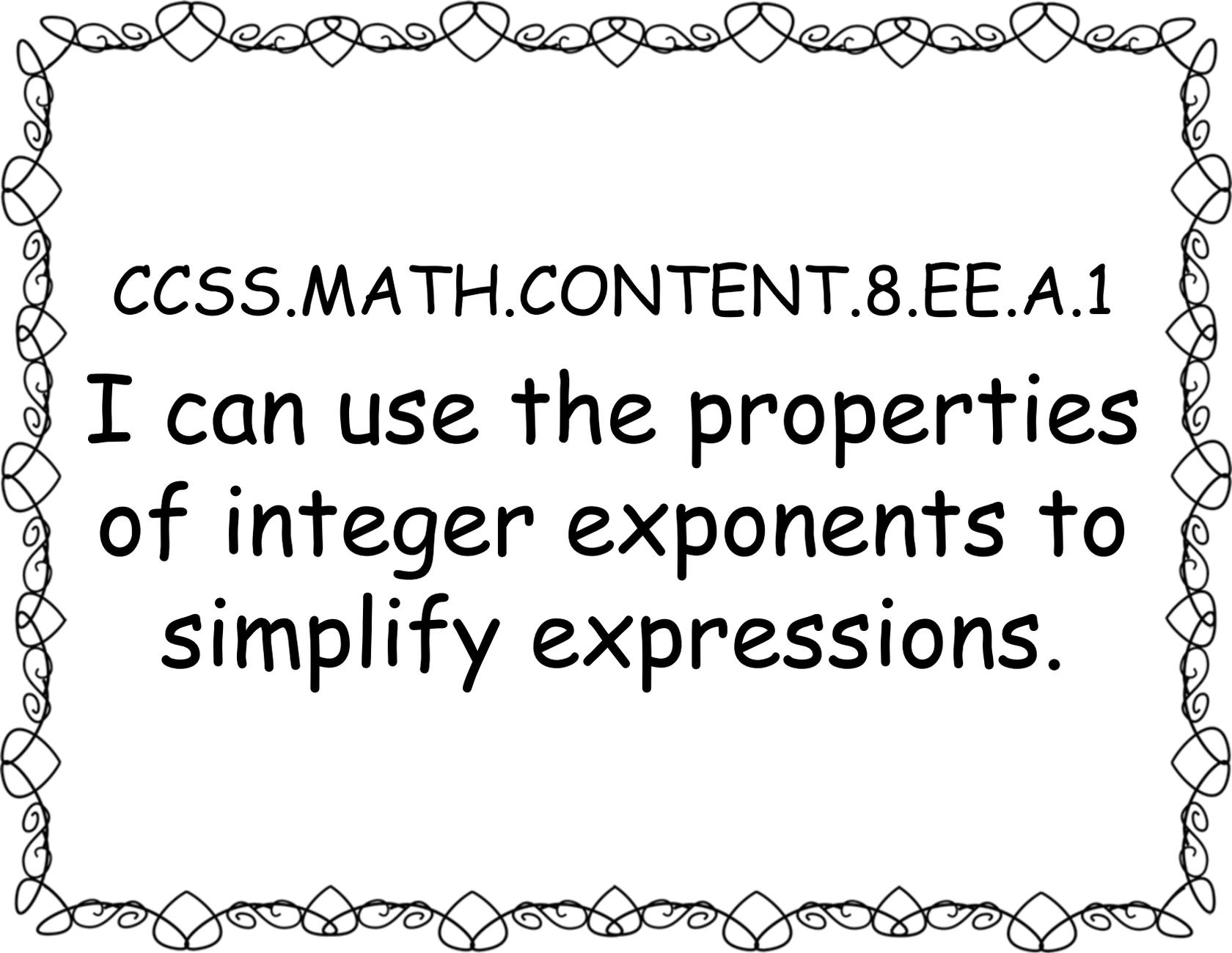


CCSS.MATH.CONTENT.8.NS.A.2

I can use estimate
values to compare two
or more irrational
numbers.

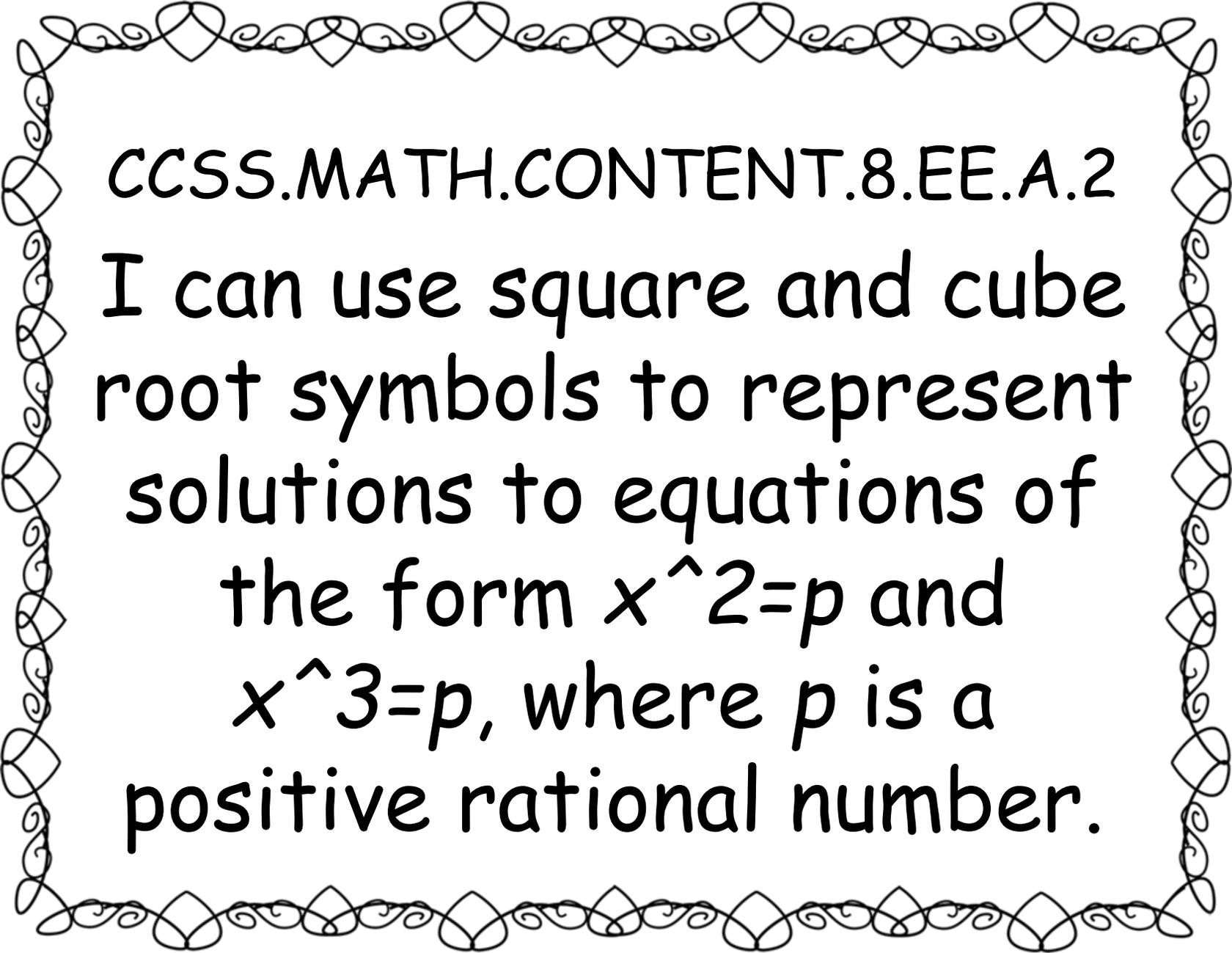


8th Grade Math
Expressions &
Equations
CCSS "I Can"
Statements



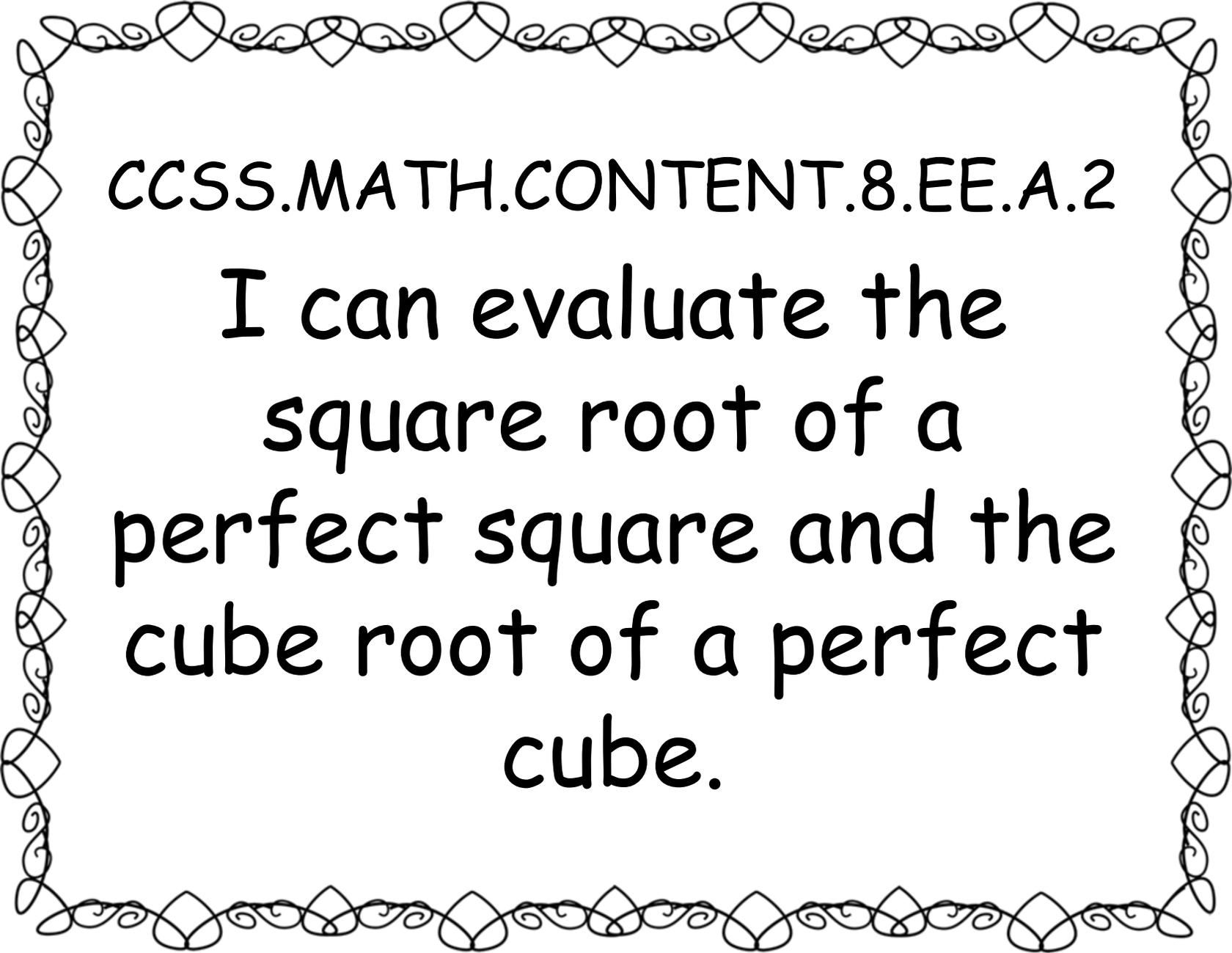
CCSS.MATH.CONTENT.8.EE.A.1

I can use the properties
of integer exponents to
simplify expressions.



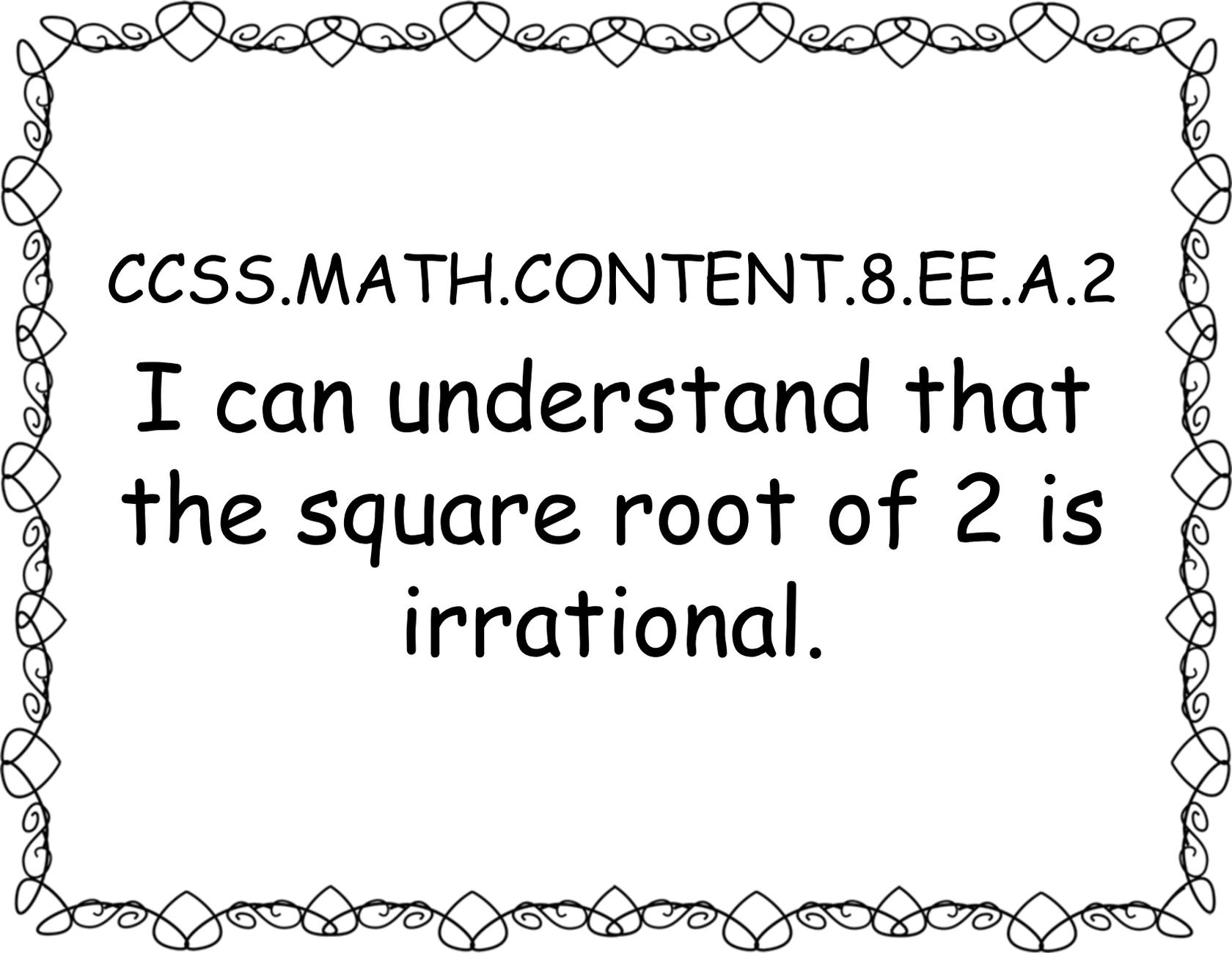
CCSS.MATH.CONTENT.8.EE.A.2

I can use square and cube root symbols to represent solutions to equations of the form $x^2=p$ and $x^3=p$, where p is a positive rational number.



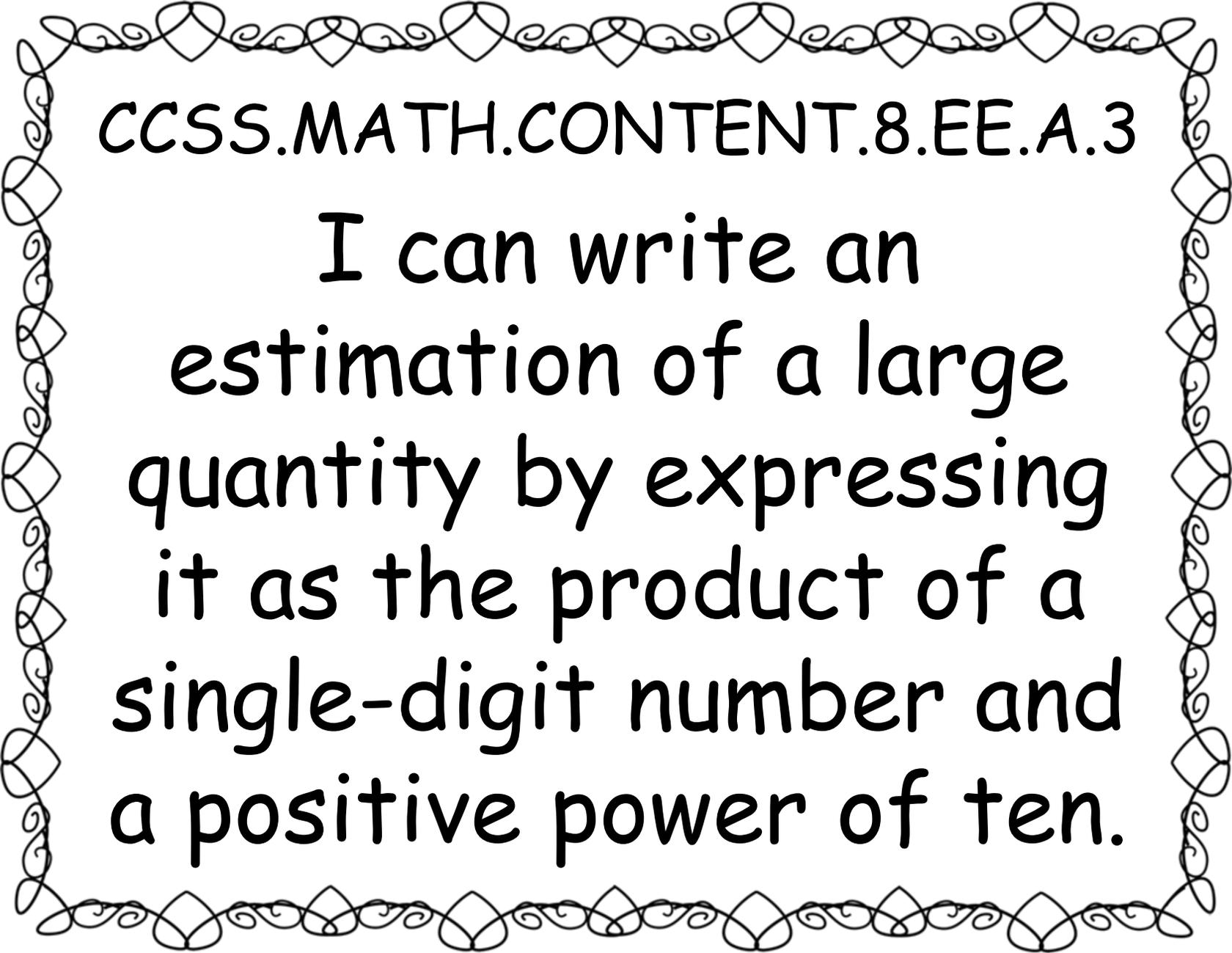
CCSS.MATH.CONTENT.8.EE.A.2

I can evaluate the
square root of a
perfect square and the
cube root of a perfect
cube.



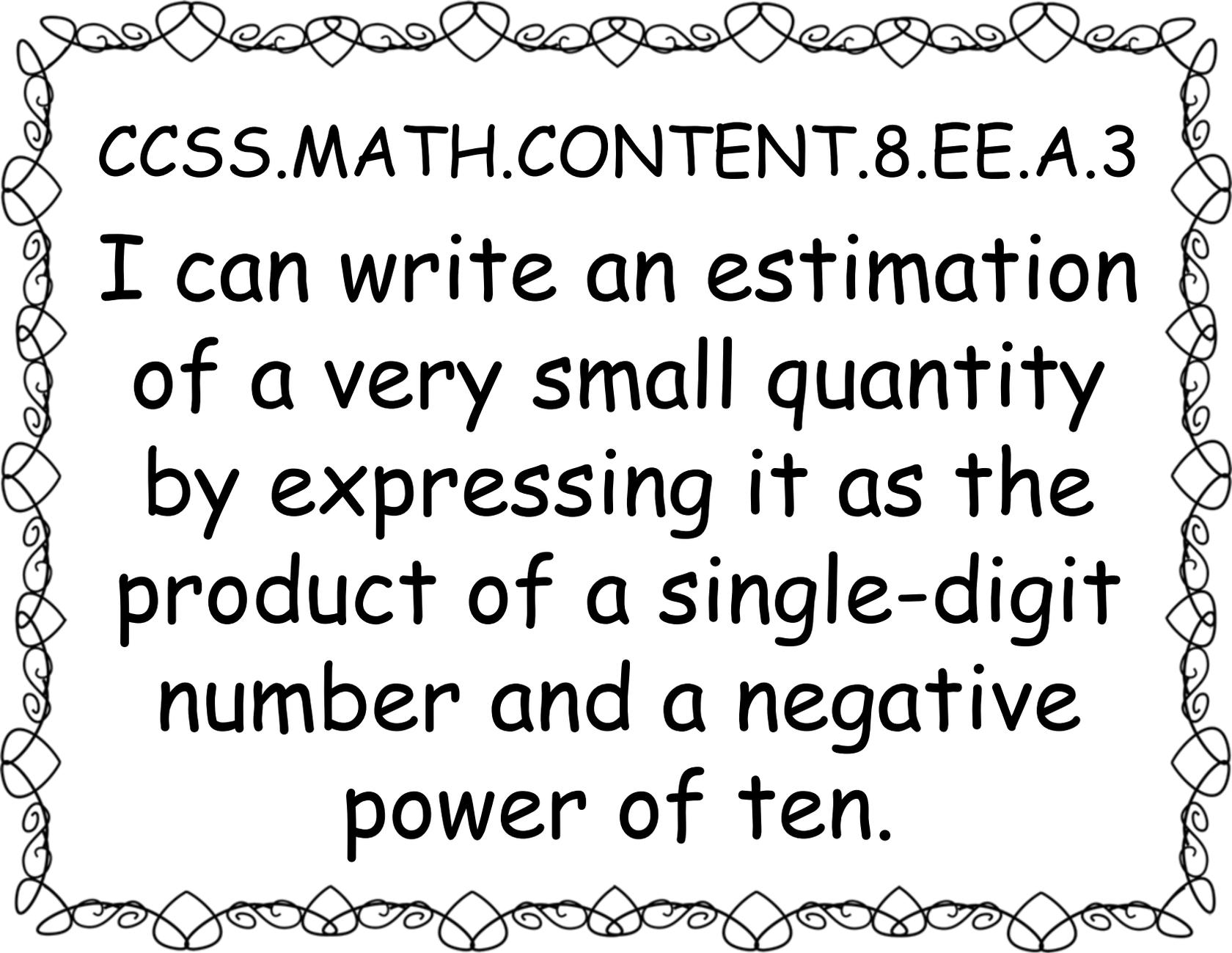
CCSS.MATH.CONTENT.8.EE.A.2

I can understand that
the square root of 2 is
irrational.



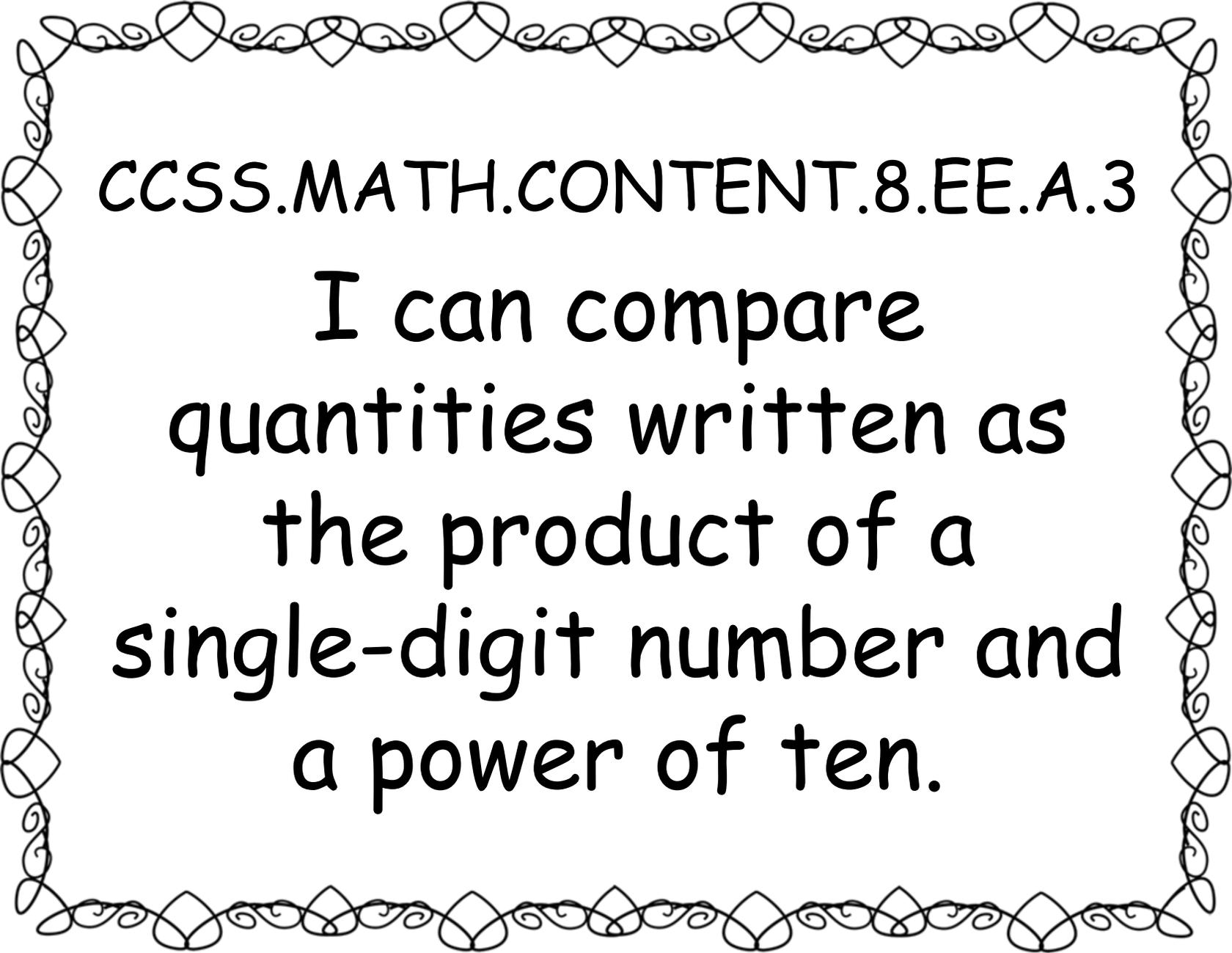
CCSS.MATH.CONTENT.8.EE.A.3

I can write an
estimation of a large
quantity by expressing
it as the product of a
single-digit number and
a positive power of ten.



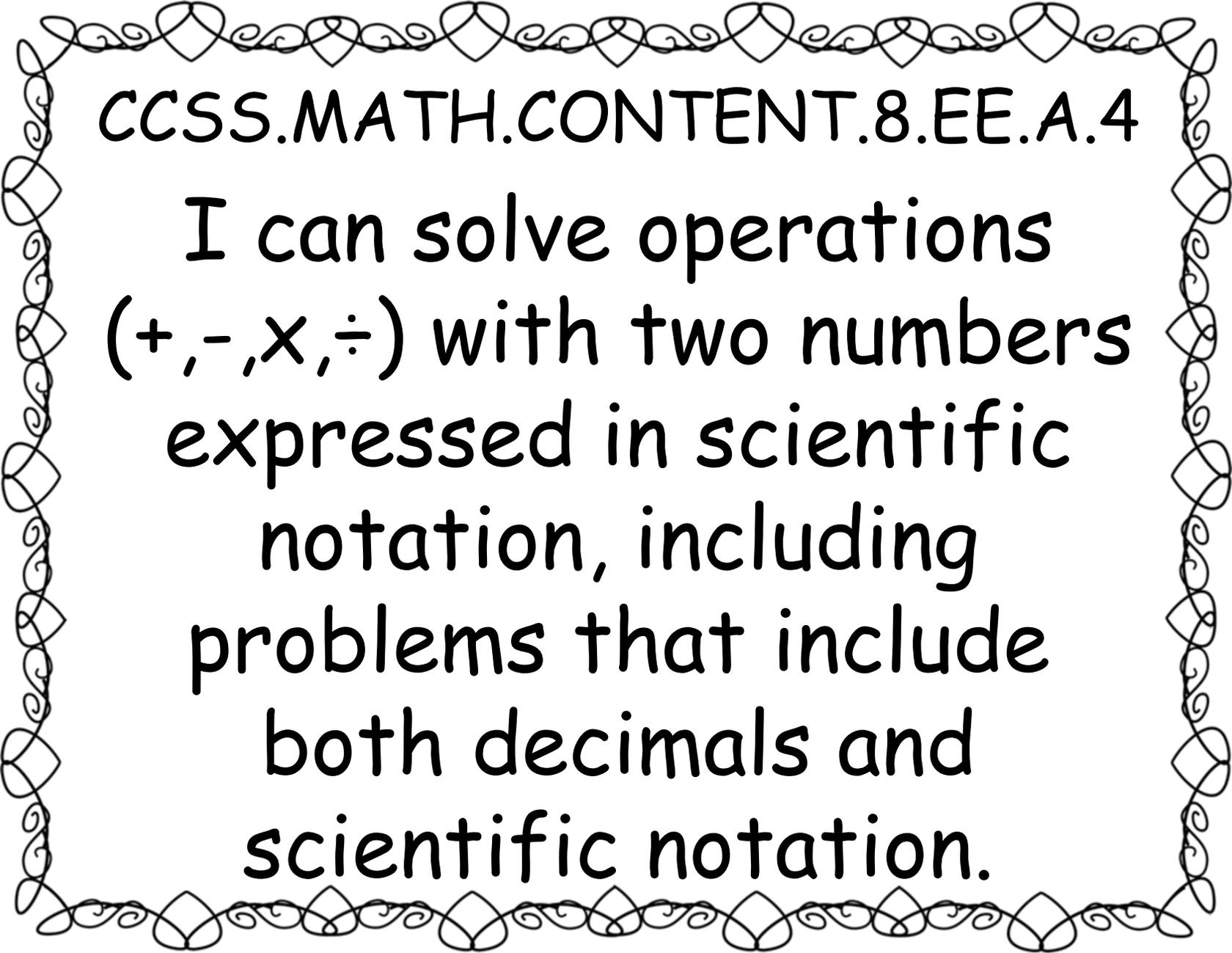
CCSS.MATH.CONTENT.8.EE.A.3

I can write an estimation
of a very small quantity
by expressing it as the
product of a single-digit
number and a negative
power of ten.



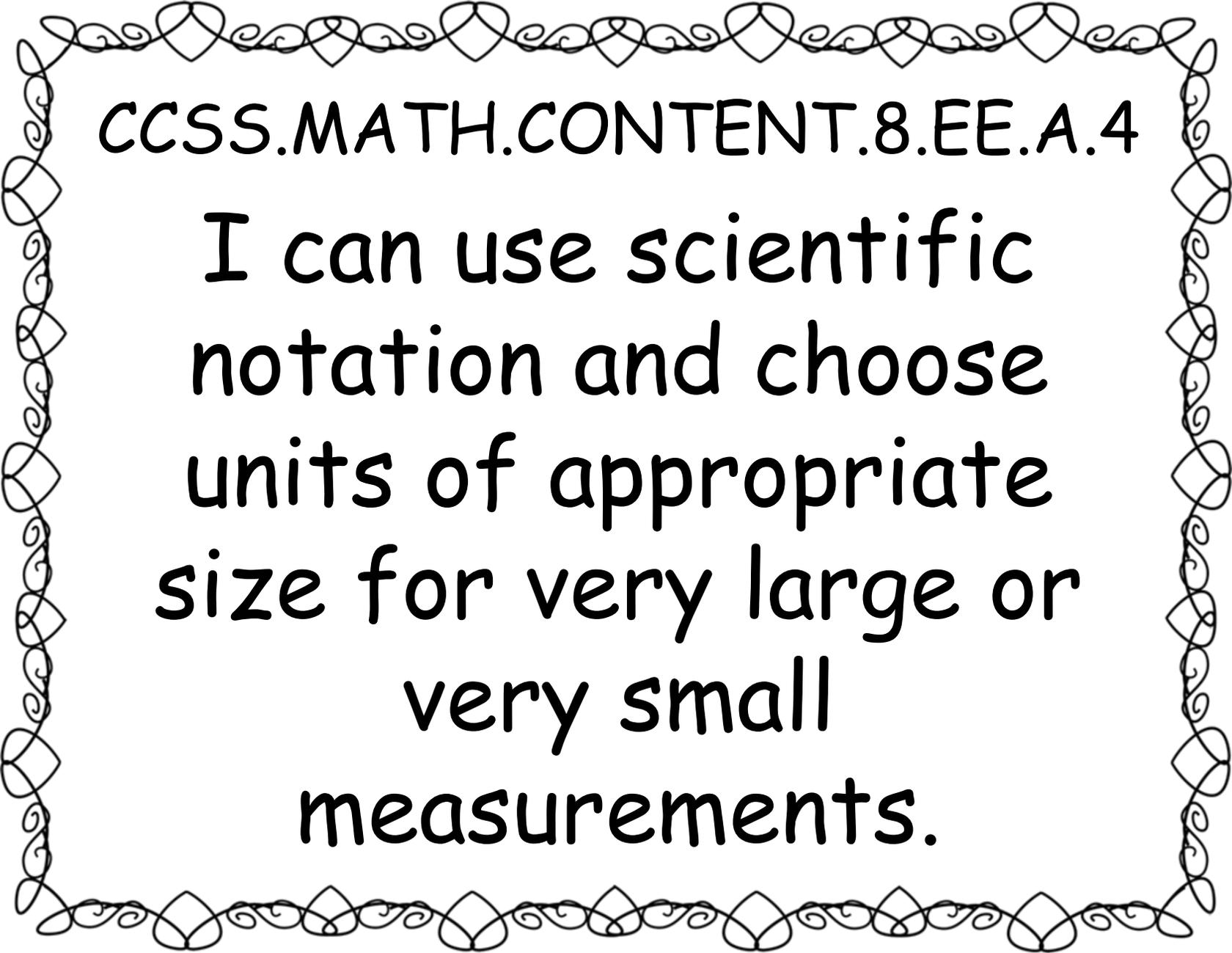
CCSS.MATH.CONTENT.8.EE.A.3

I can compare
quantities written as
the product of a
single-digit number and
a power of ten.



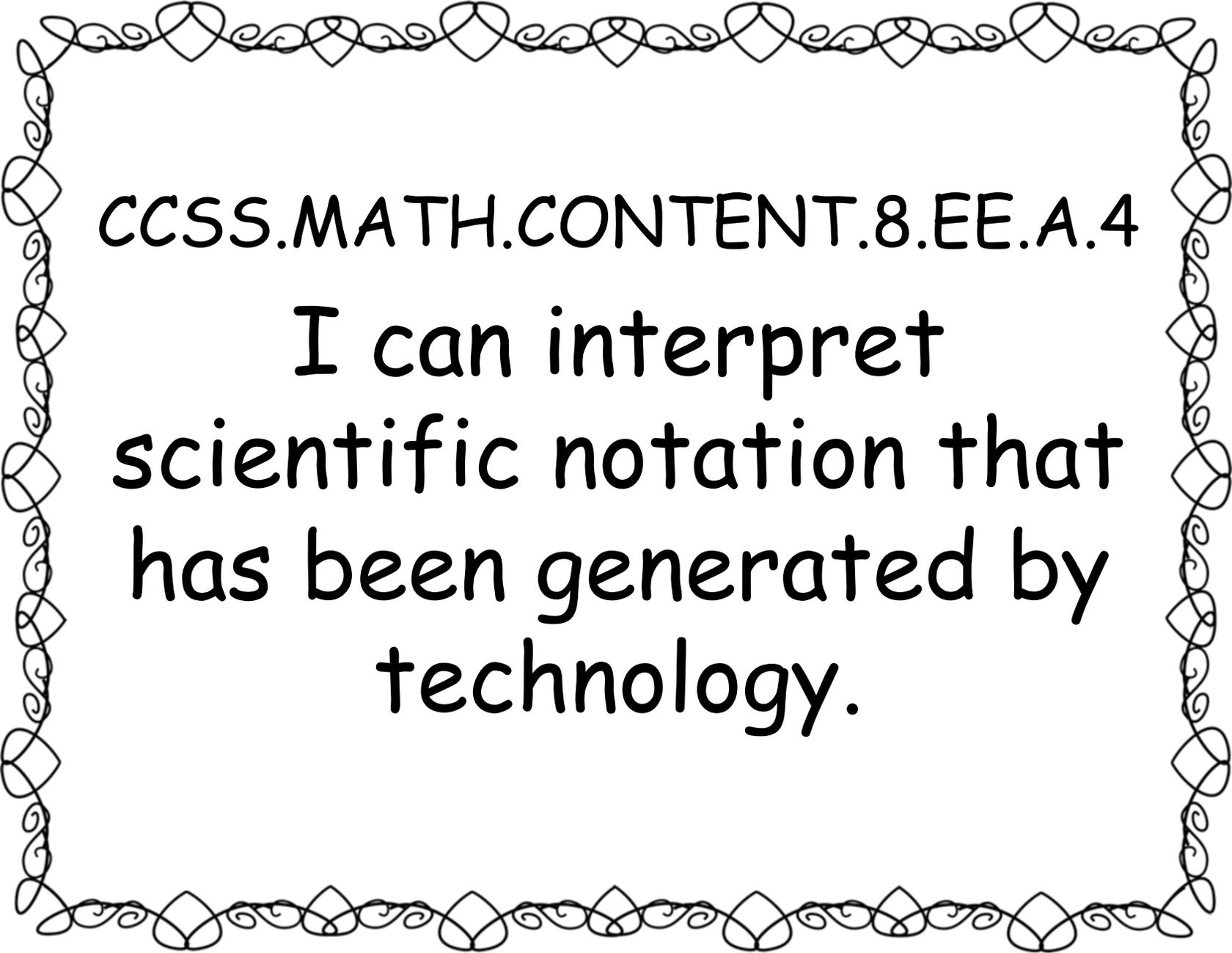
CCSS.MATH.CONTENT.8.EE.A.4

I can solve operations
(+, -, \times , \div) with two numbers
expressed in scientific
notation, including
problems that include
both decimals and
scientific notation.



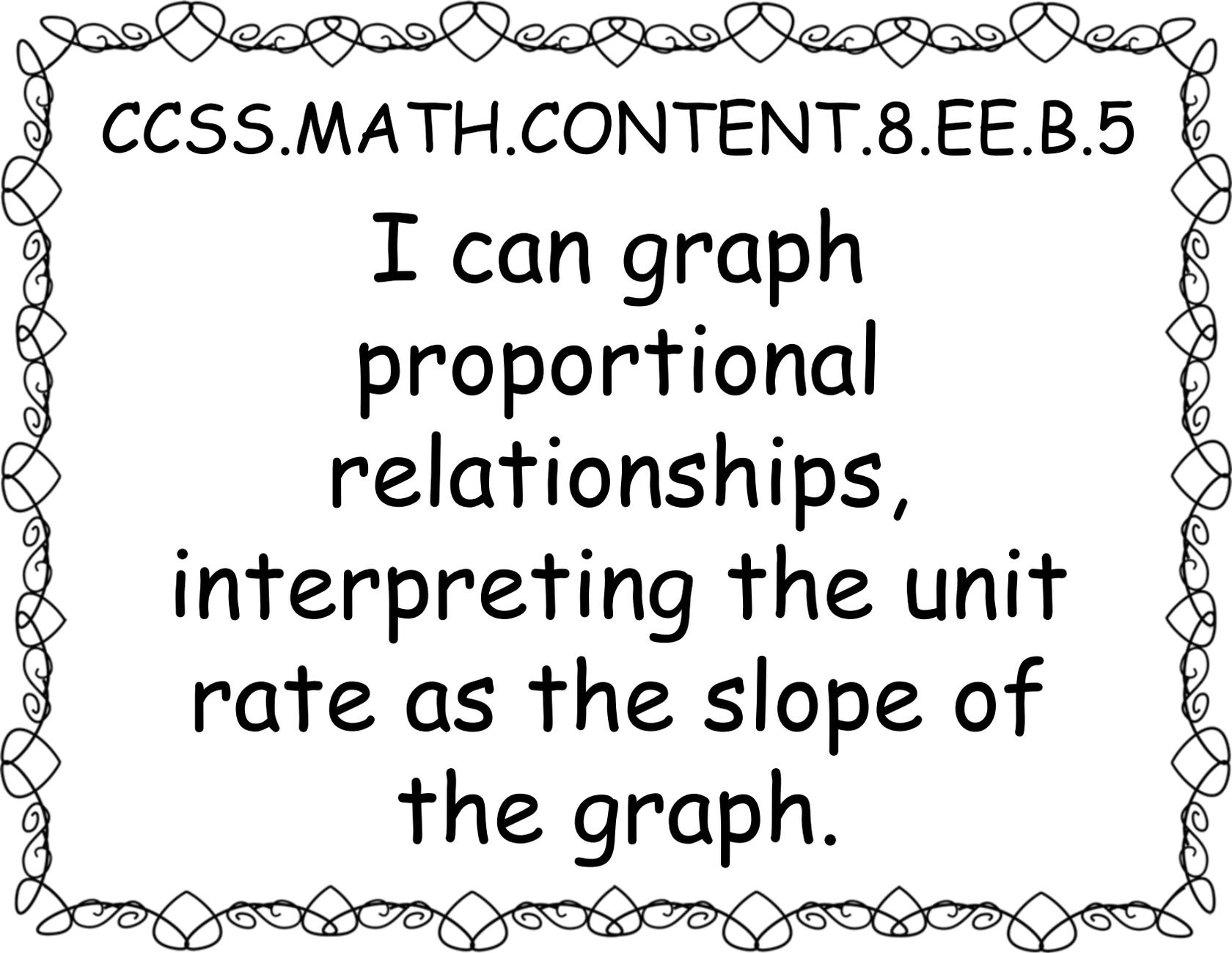
CCSS.MATH.CONTENT.8.EE.A.4

I can use scientific notation and choose units of appropriate size for very large or very small measurements.



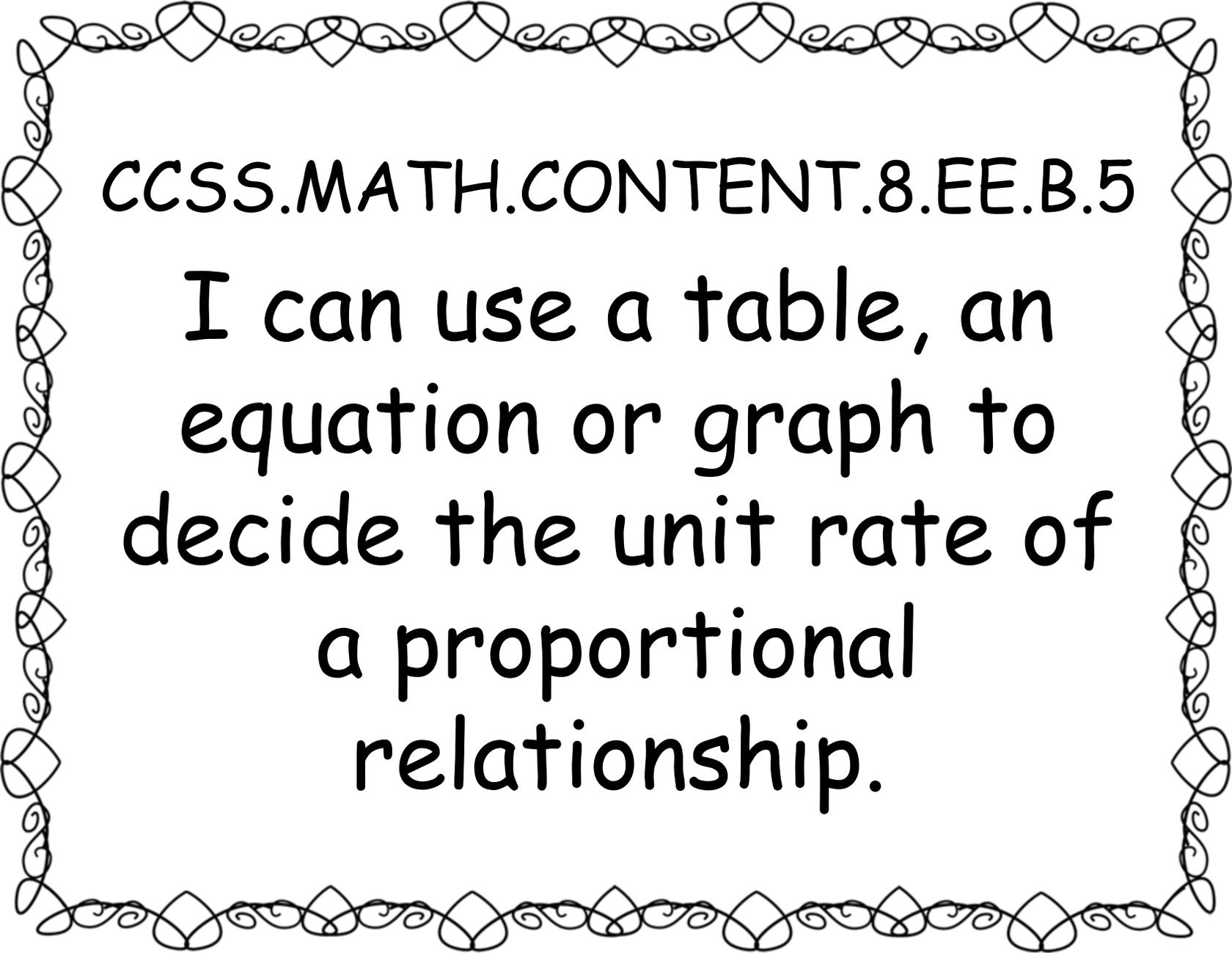
CCSS.MATH.CONTENT.8.EE.A.4

I can interpret
scientific notation that
has been generated by
technology.



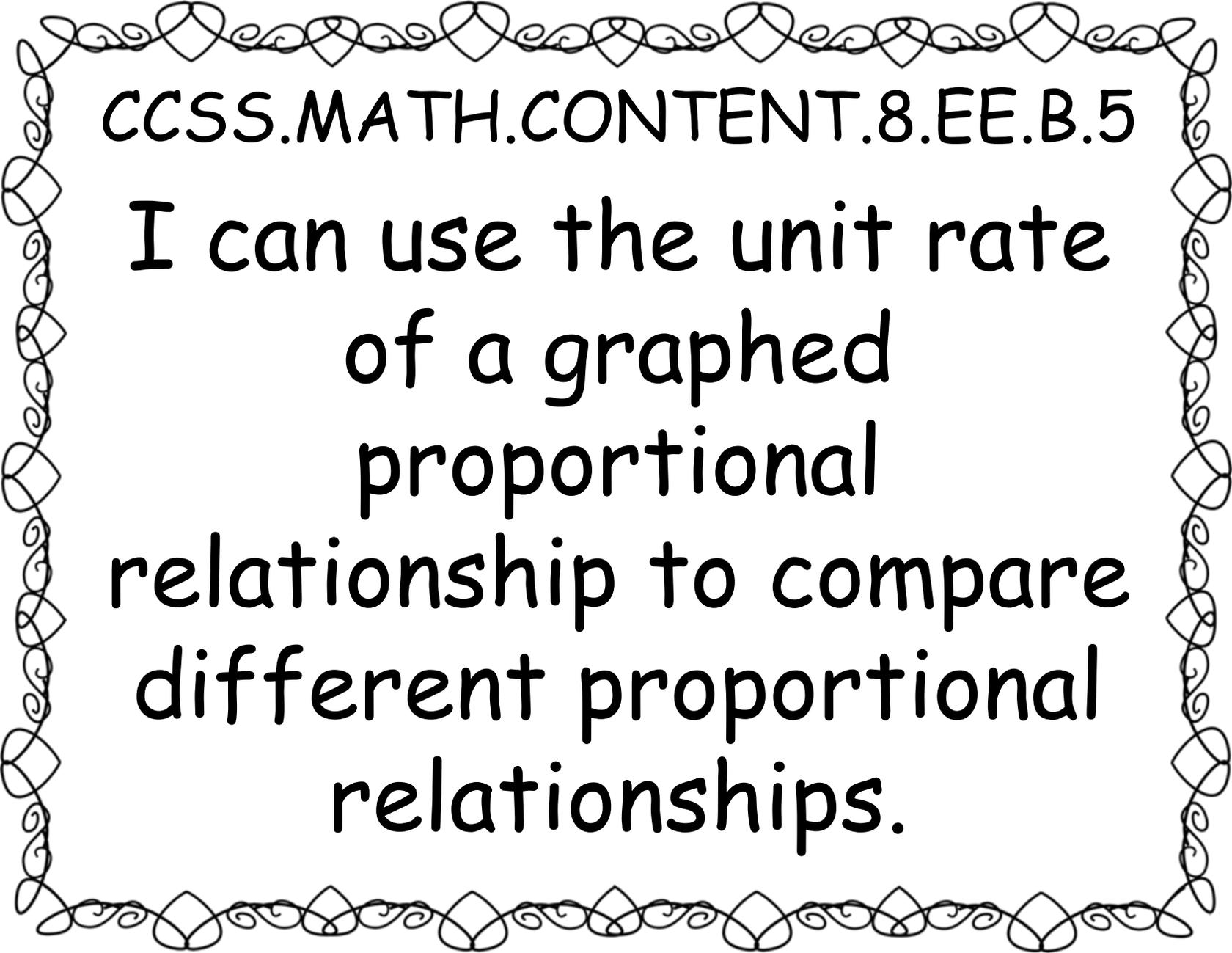
CCSS.MATH.CONTENT.8.EE.B.5

I can graph
proportional
relationships,
interpreting the unit
rate as the slope of
the graph.



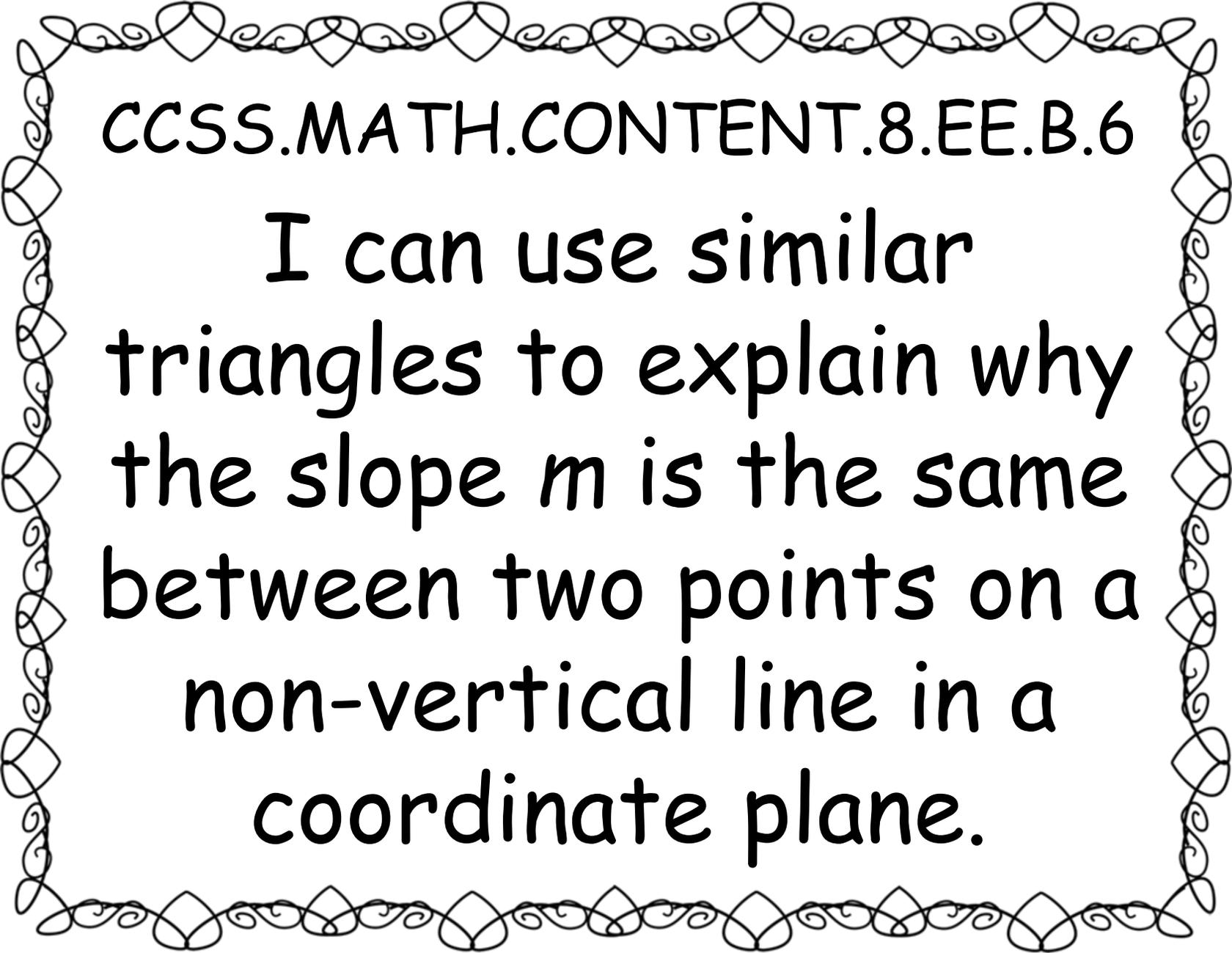
CCSS.MATH.CONTENT.8.EE.B.5

I can use a table, an equation or graph to decide the unit rate of a proportional relationship.



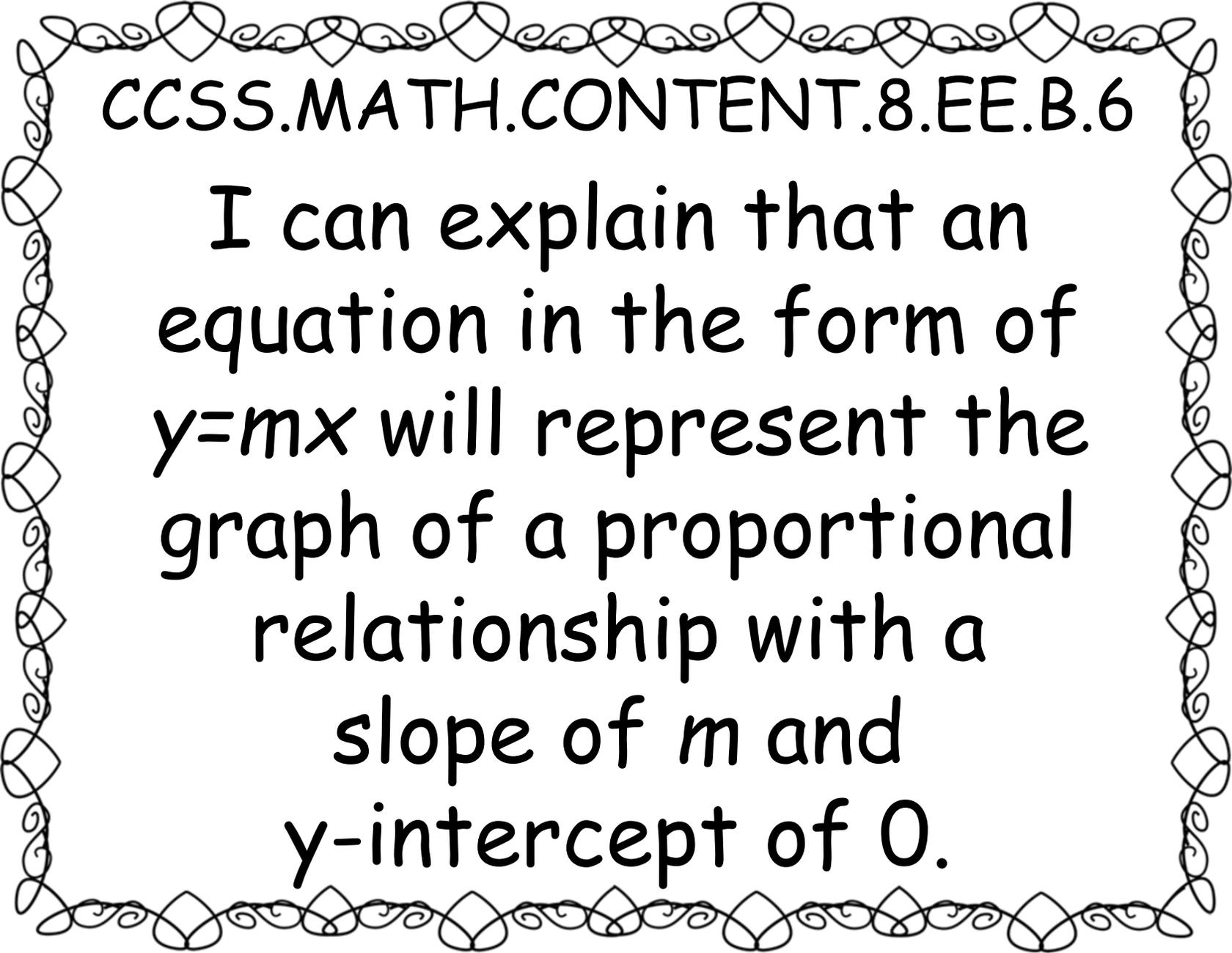
CCSS.MATH.CONTENT.8.EE.B.5

I can use the unit rate
of a graphed
proportional
relationship to compare
different proportional
relationships.



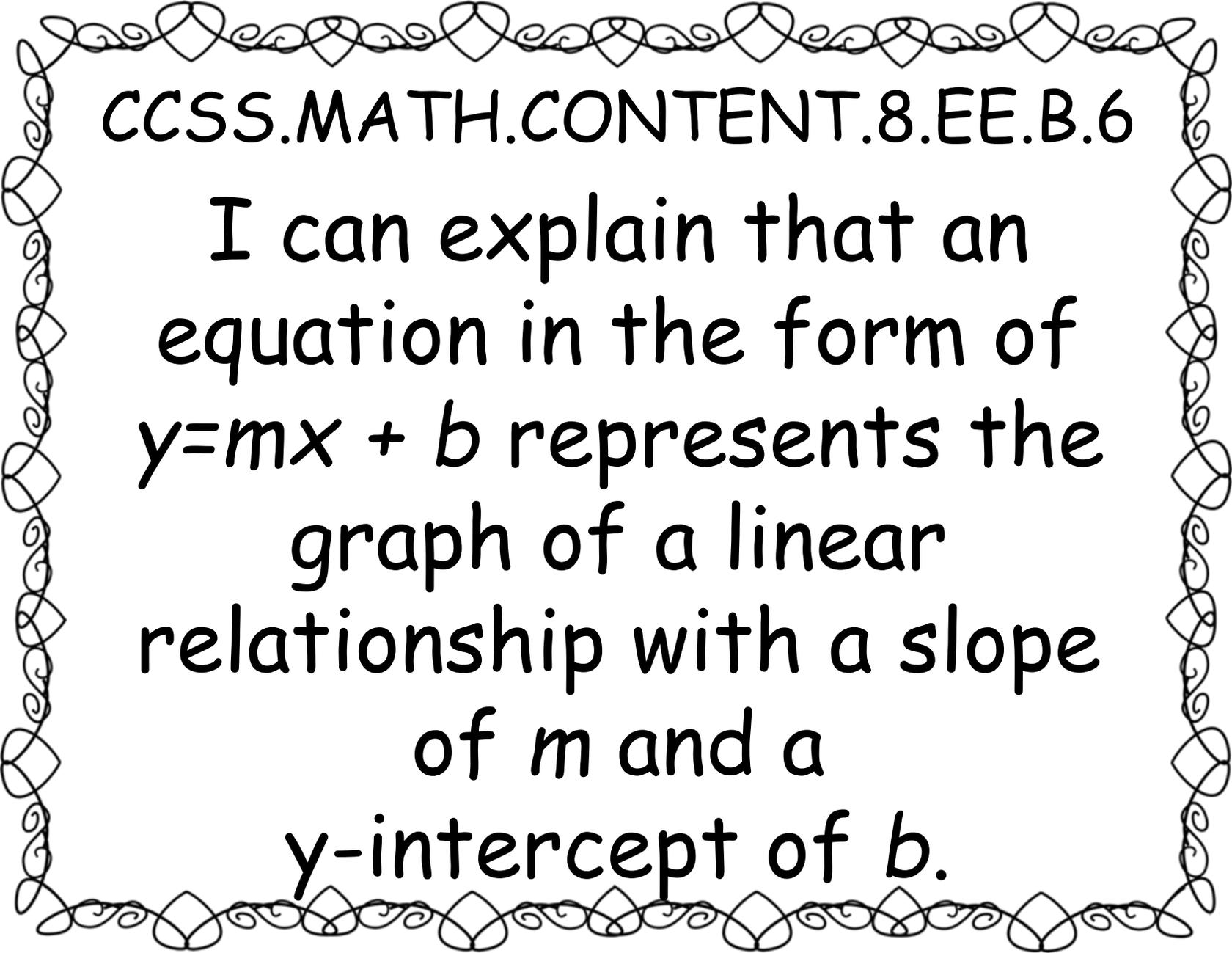
CCSS.MATH.CONTENT.8.EE.B.6

I can use similar triangles to explain why the slope m is the same between two points on a non-vertical line in a coordinate plane.



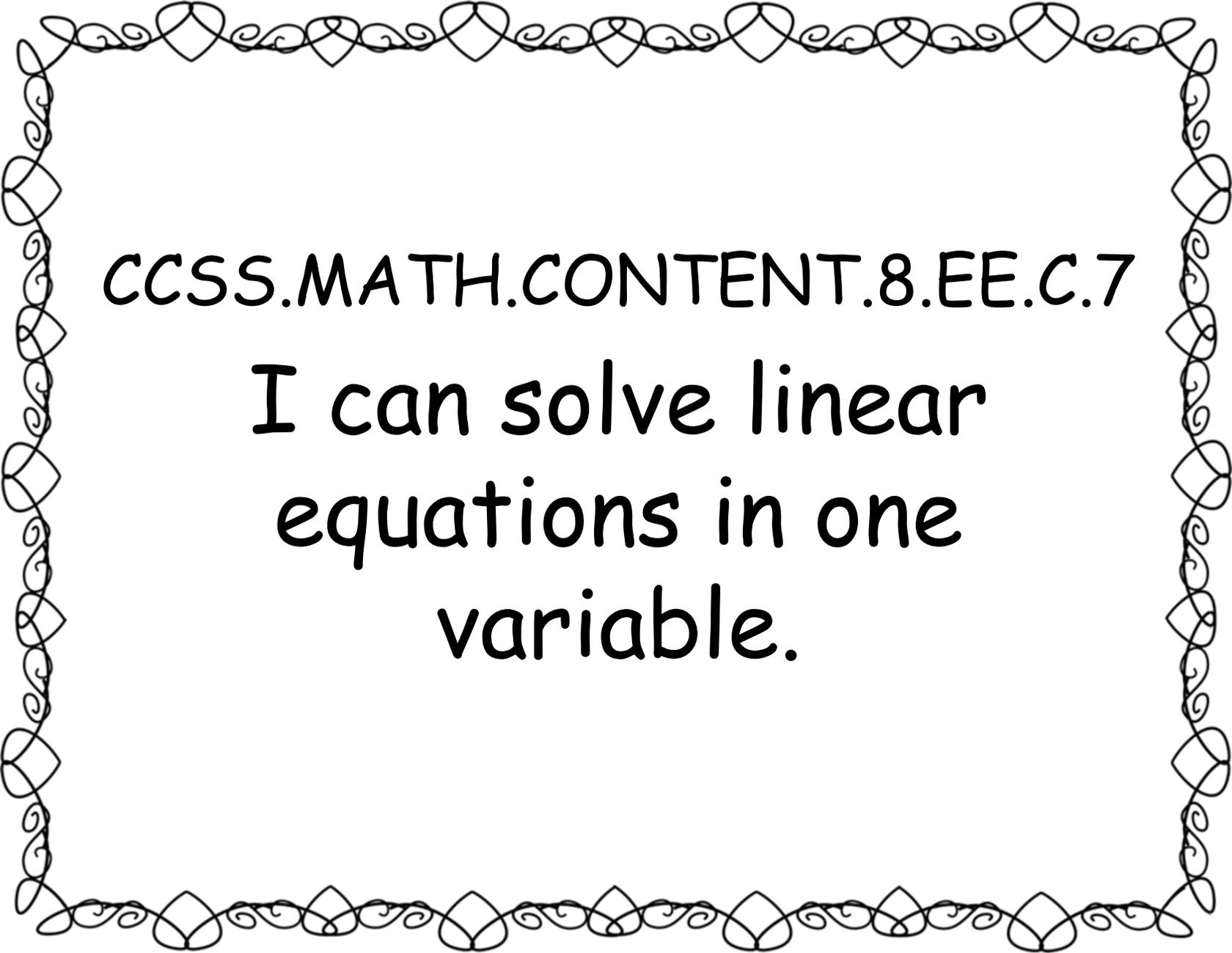
CCSS.MATH.CONTENT.8.EE.B.6

I can explain that an equation in the form of $y=mx$ will represent the graph of a proportional relationship with a slope of m and y -intercept of 0.



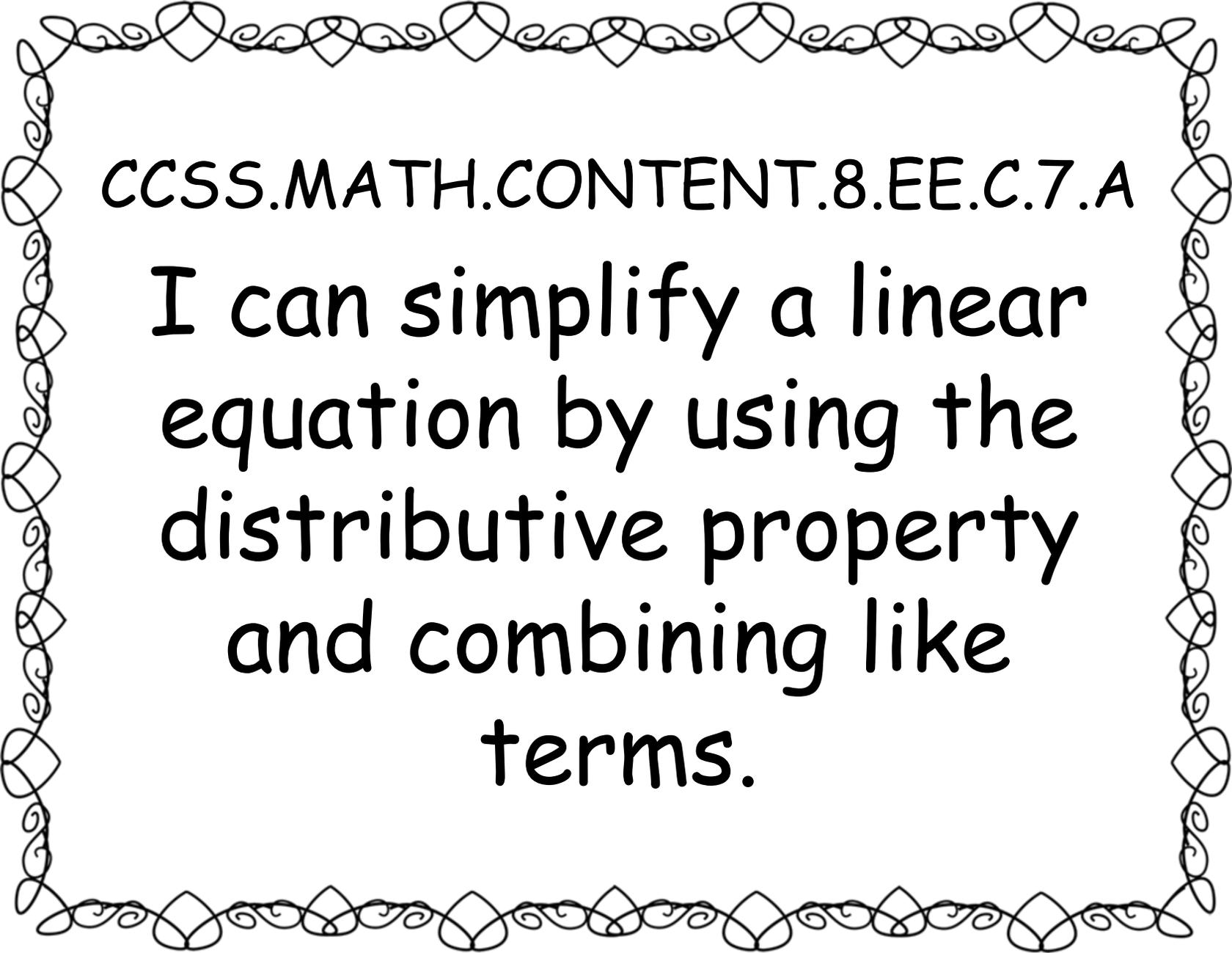
CCSS.MATH.CONTENT.8.EE.B.6

I can explain that an equation in the form of $y = mx + b$ represents the graph of a linear relationship with a slope of m and a y -intercept of b .



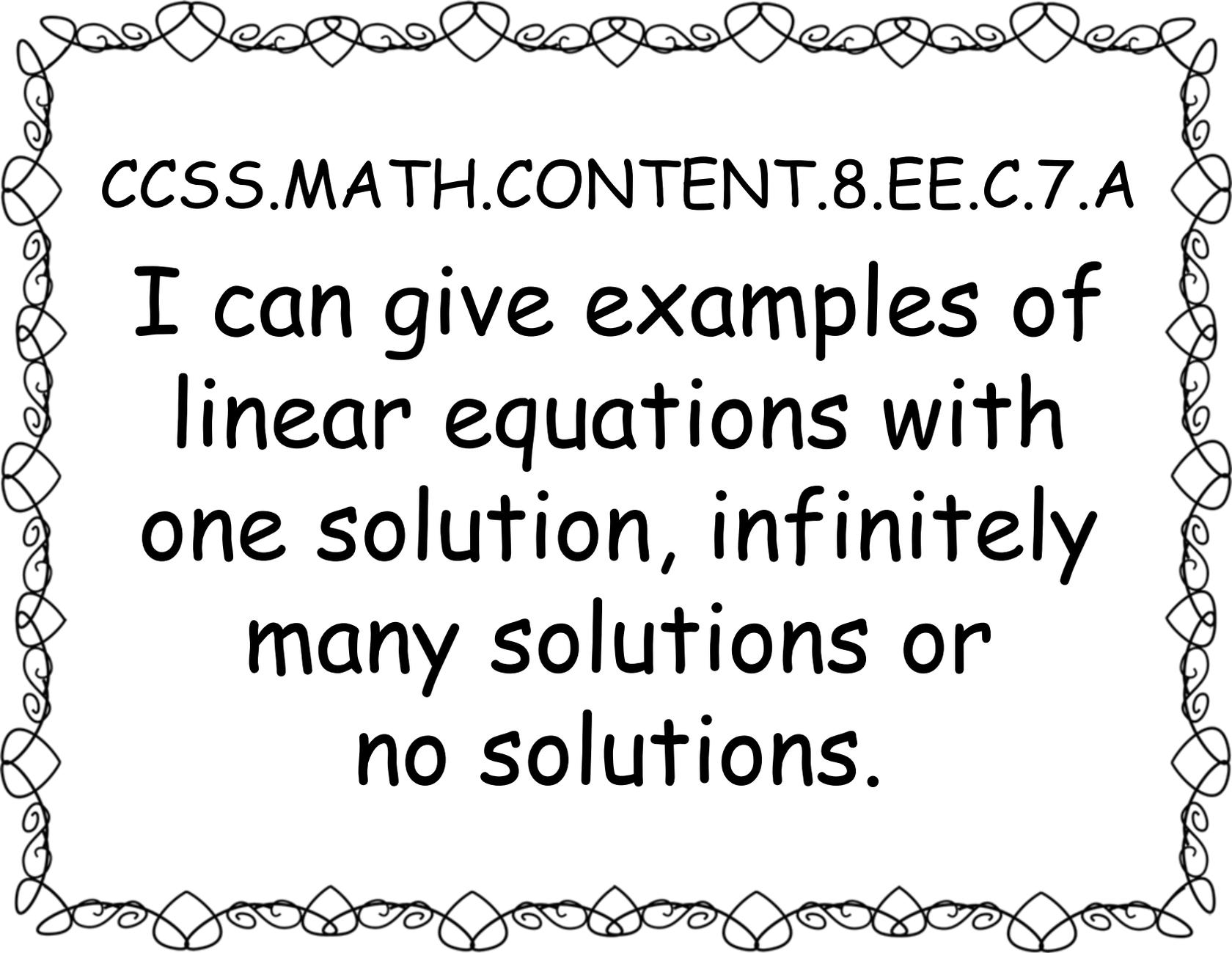
CCSS.MATH.CONTENT.8.EE.C.7

I can solve linear
equations in one
variable.



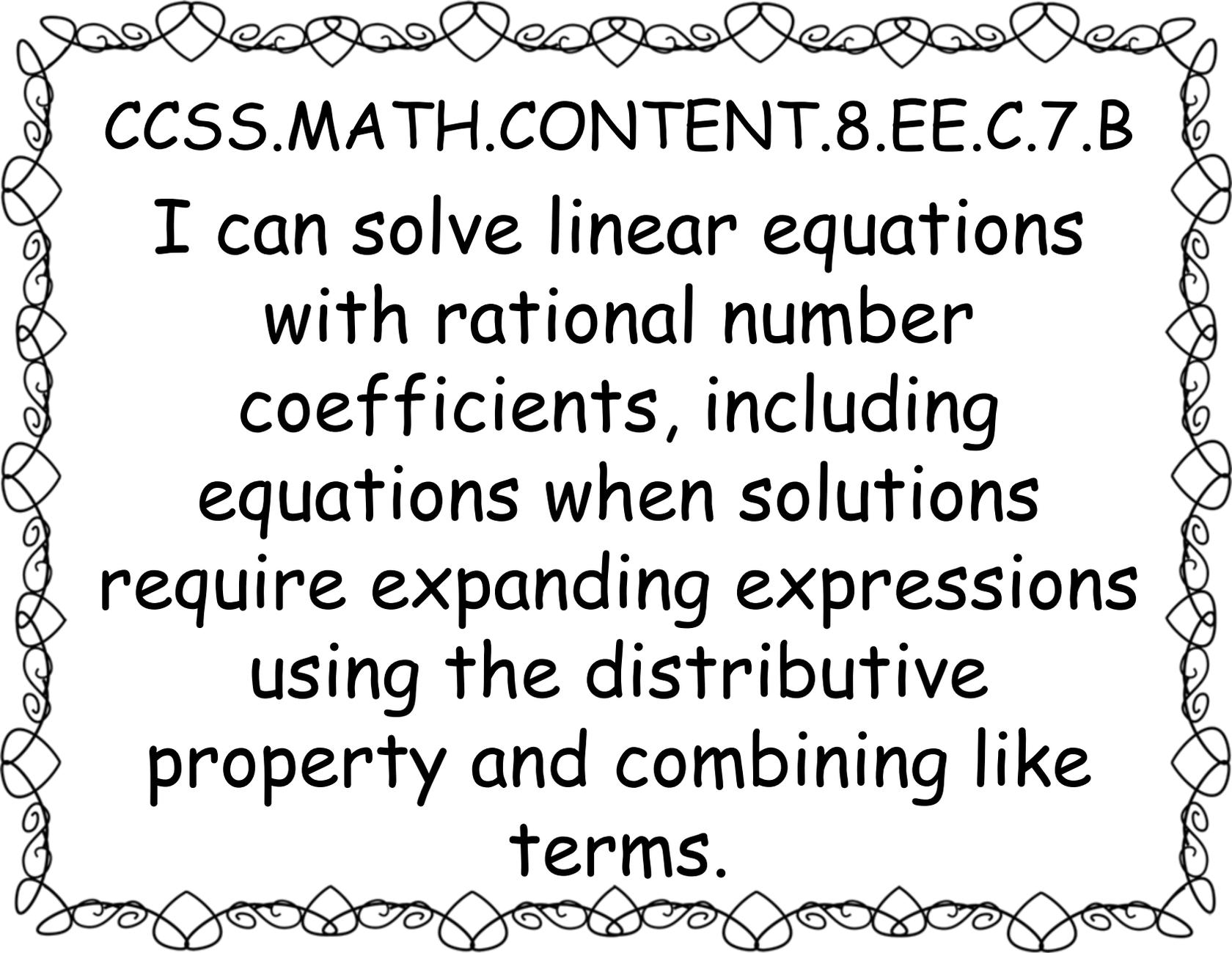
CCSS.MATH.CONTENT.8.EE.C.7.A

I can simplify a linear equation by using the distributive property and combining like terms.



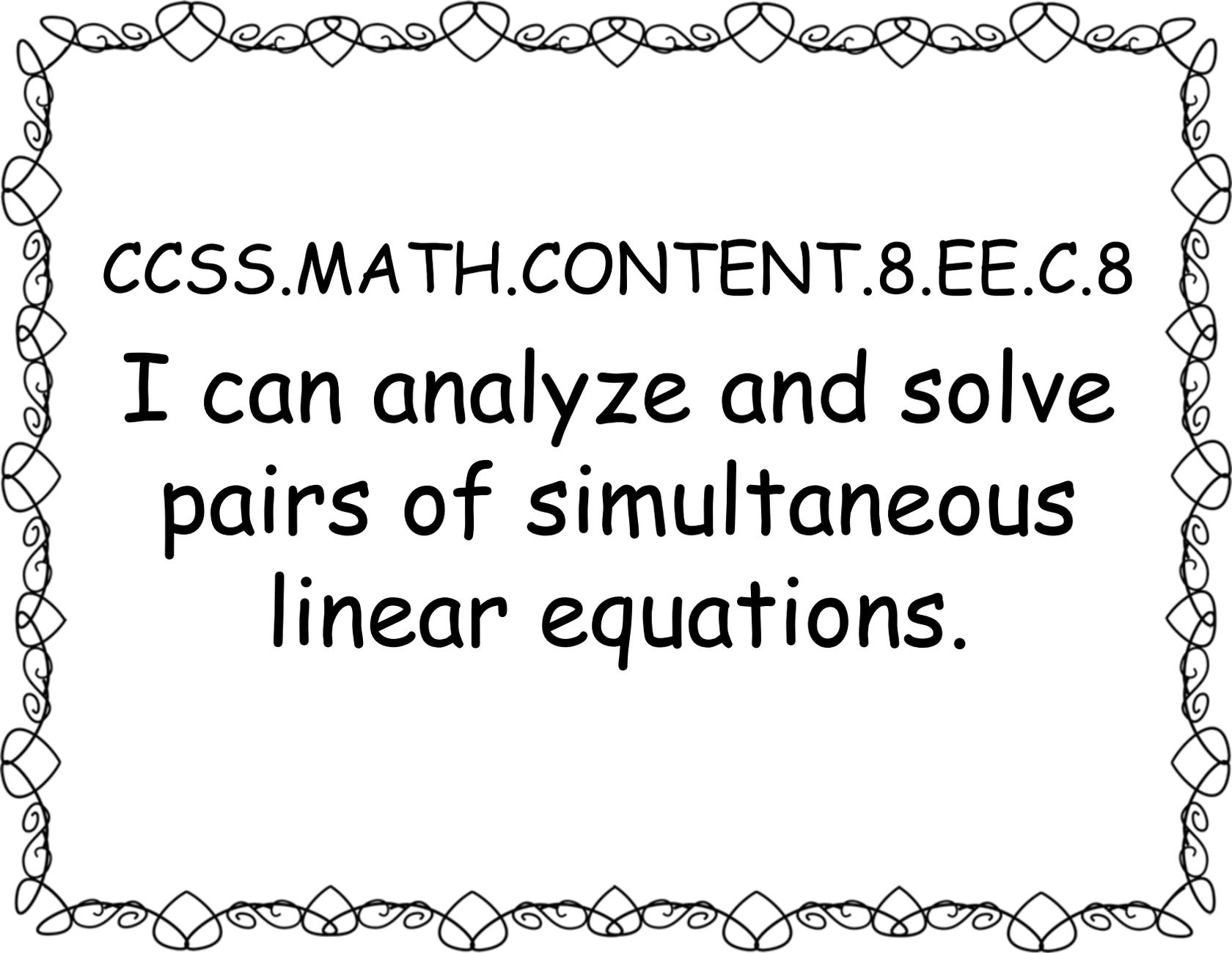
CCSS.MATH.CONTENT.8.EE.C.7.A

I can give examples of
linear equations with
one solution, infinitely
many solutions or
no solutions.



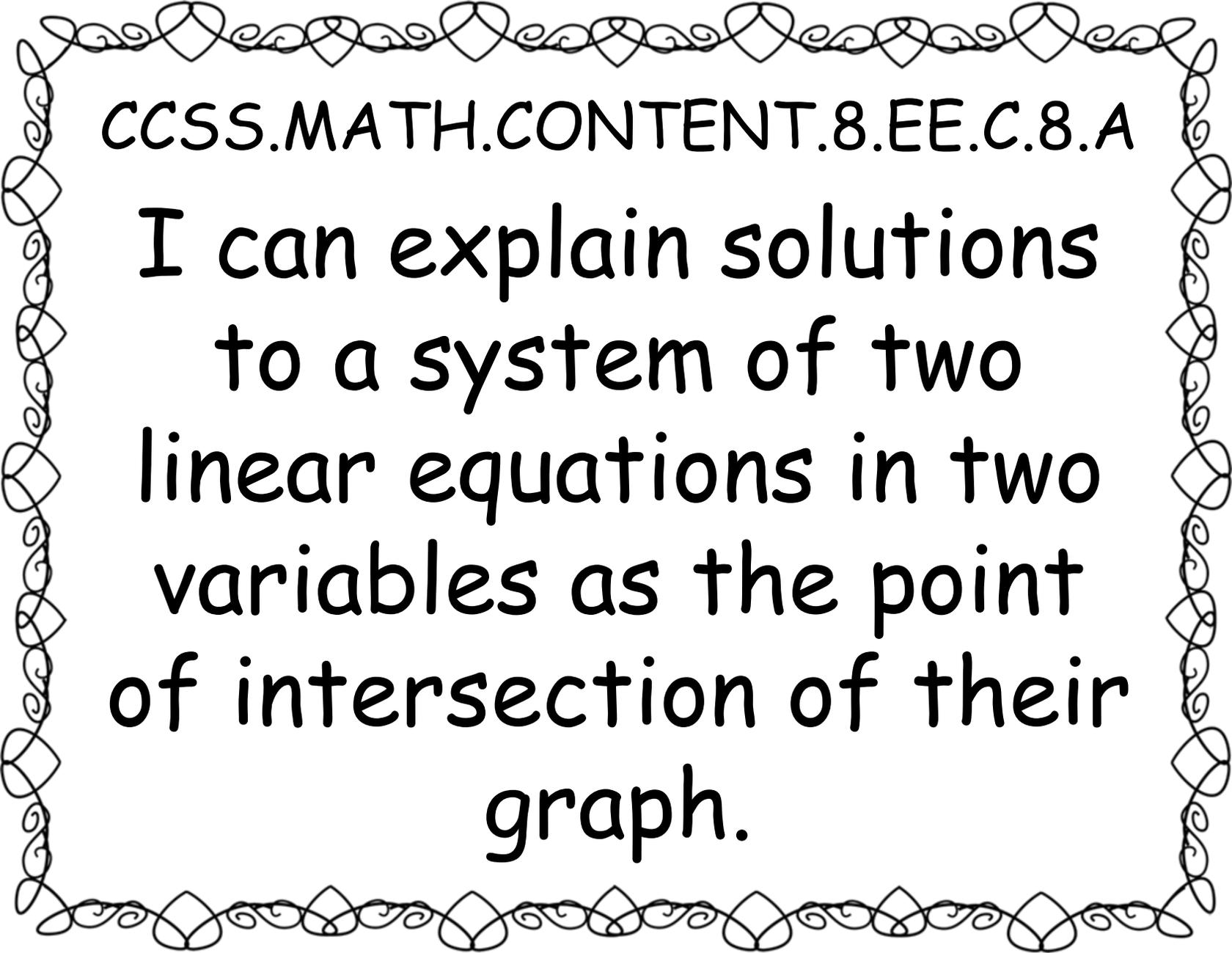
CCSS.MATH.CONTENT.8.EE.C.7.B

I can solve linear equations
with rational number
coefficients, including
equations when solutions
require expanding expressions
using the distributive
property and combining like
terms.



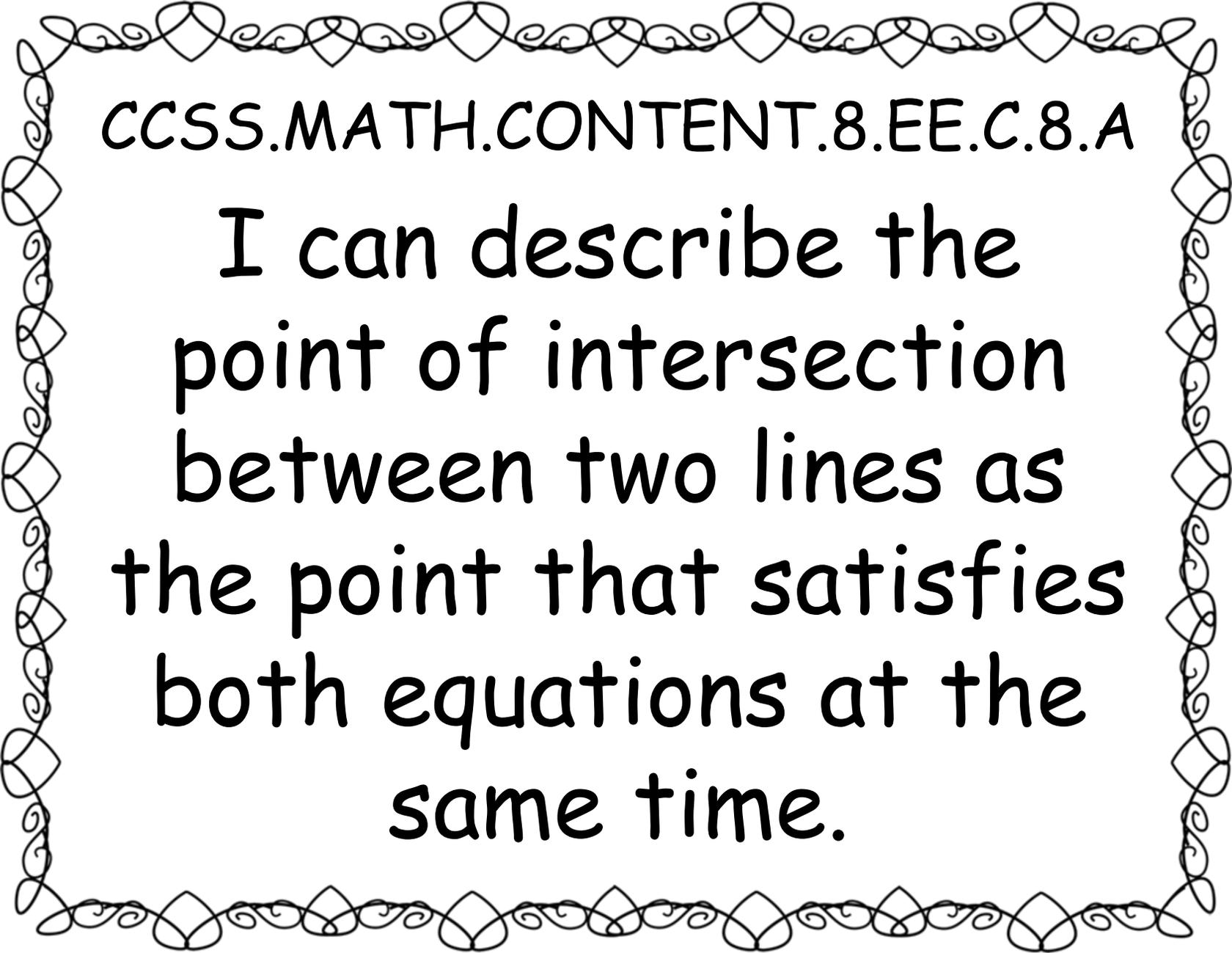
CCSS.MATH.CONTENT.8.EE.C.8

I can analyze and solve
pairs of simultaneous
linear equations.



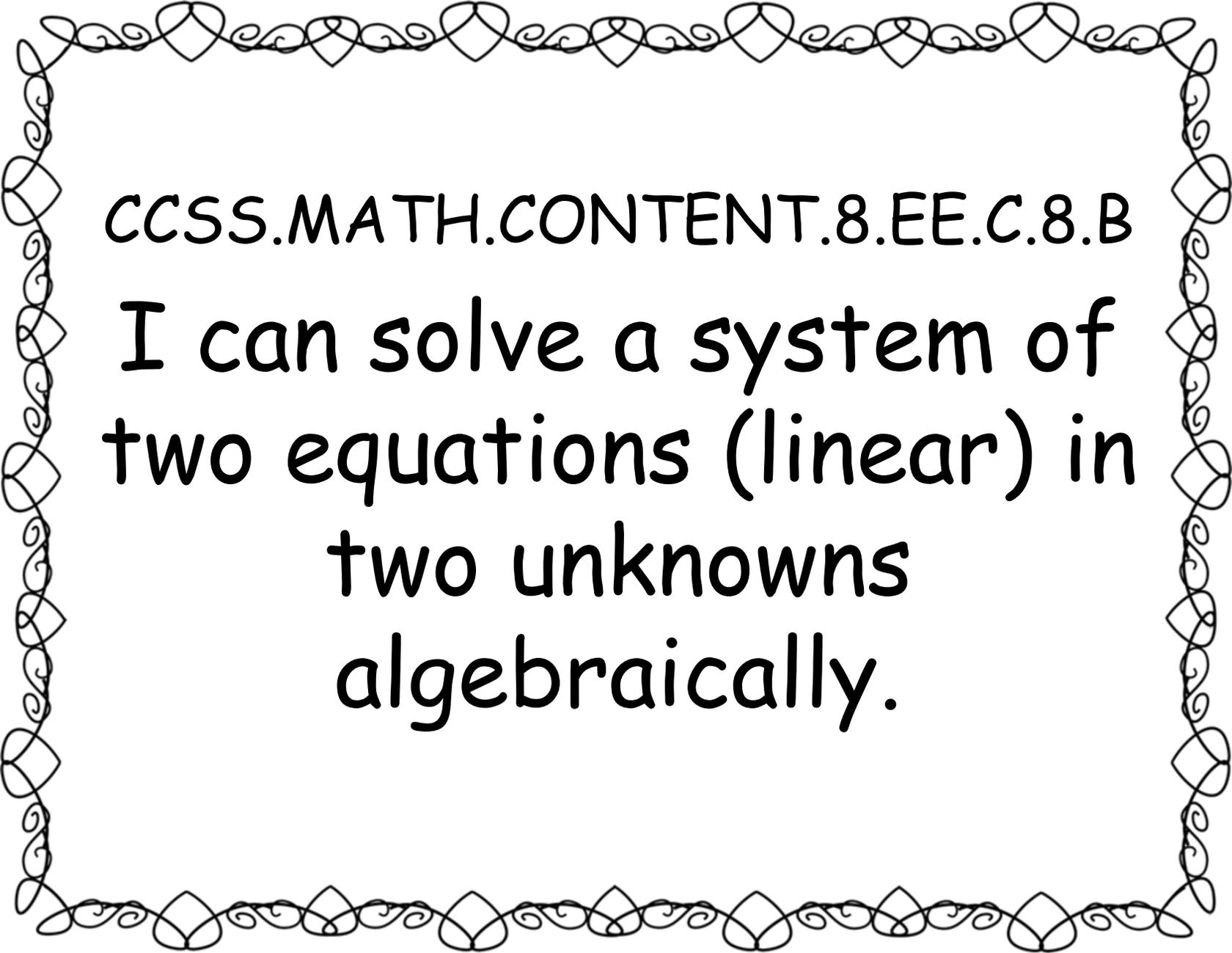
CCSS.MATH.CONTENT.8.EE.C.8.A

I can explain solutions
to a system of two
linear equations in two
variables as the point
of intersection of their
graph.



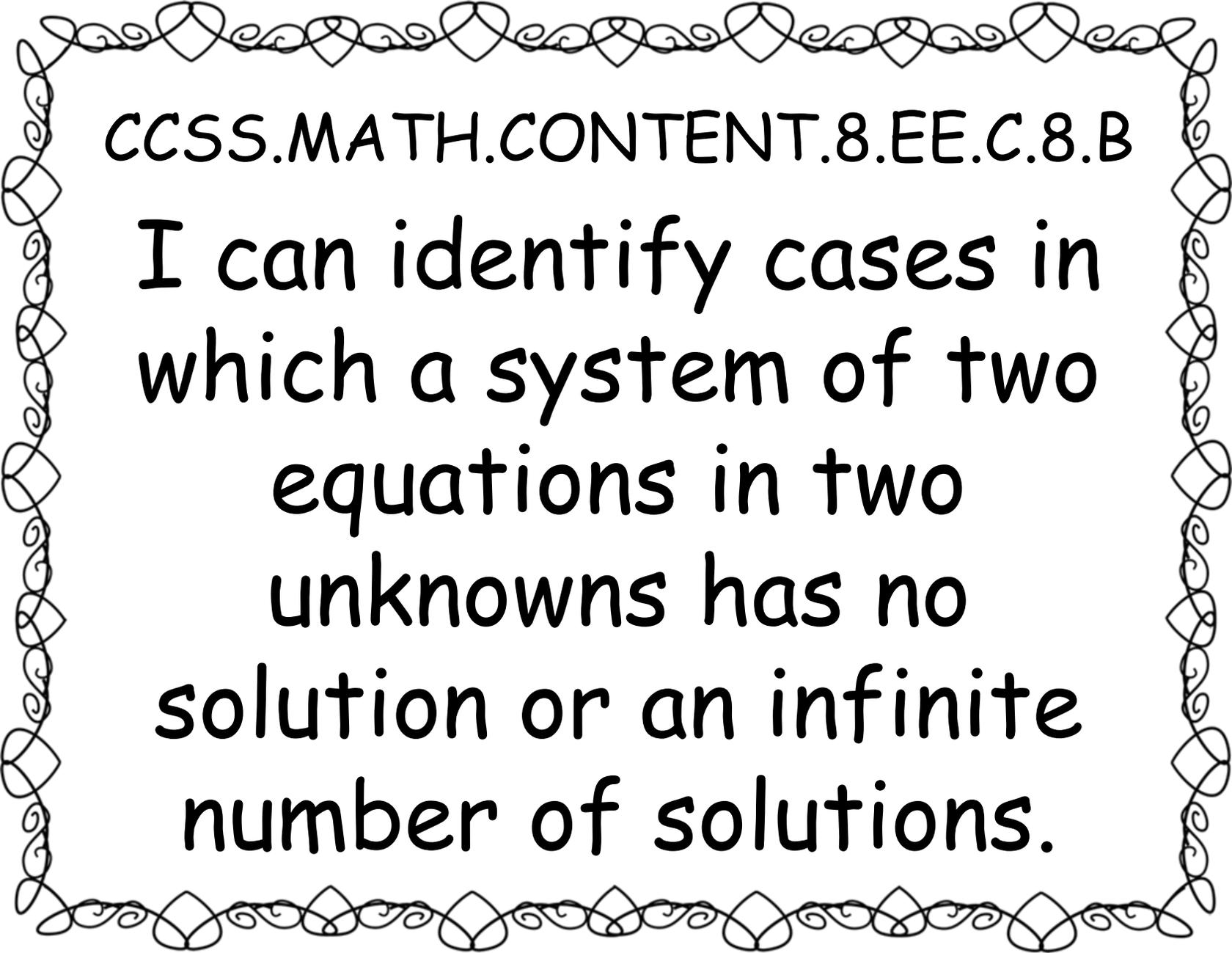
CCSS.MATH.CONTENT.8.EE.C.8.A

I can describe the point of intersection between two lines as the point that satisfies both equations at the same time.



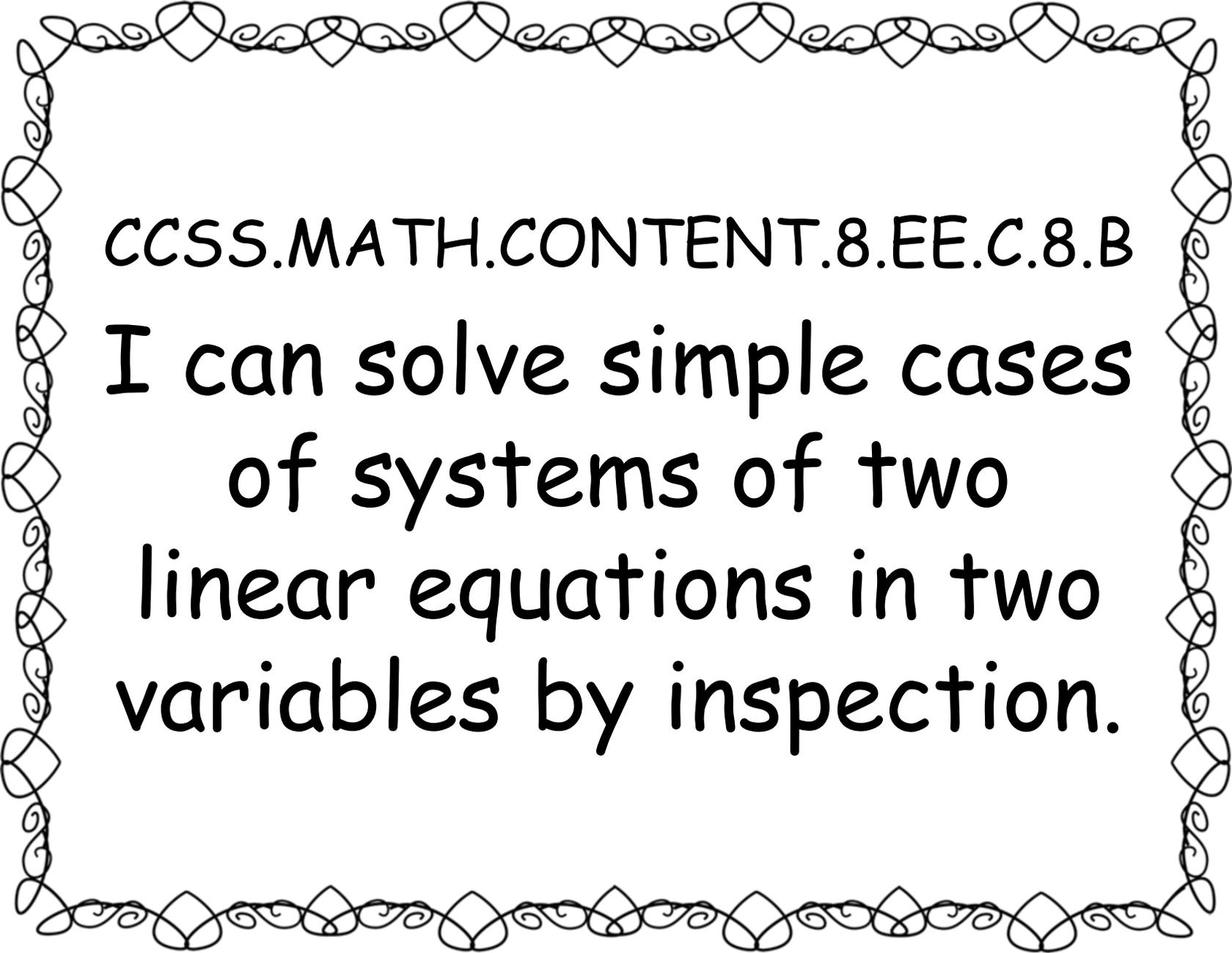
CCSS.MATH.CONTENT.8.EE.C.8.B

I can solve a system of
two equations (linear) in
two unknowns
algebraically.



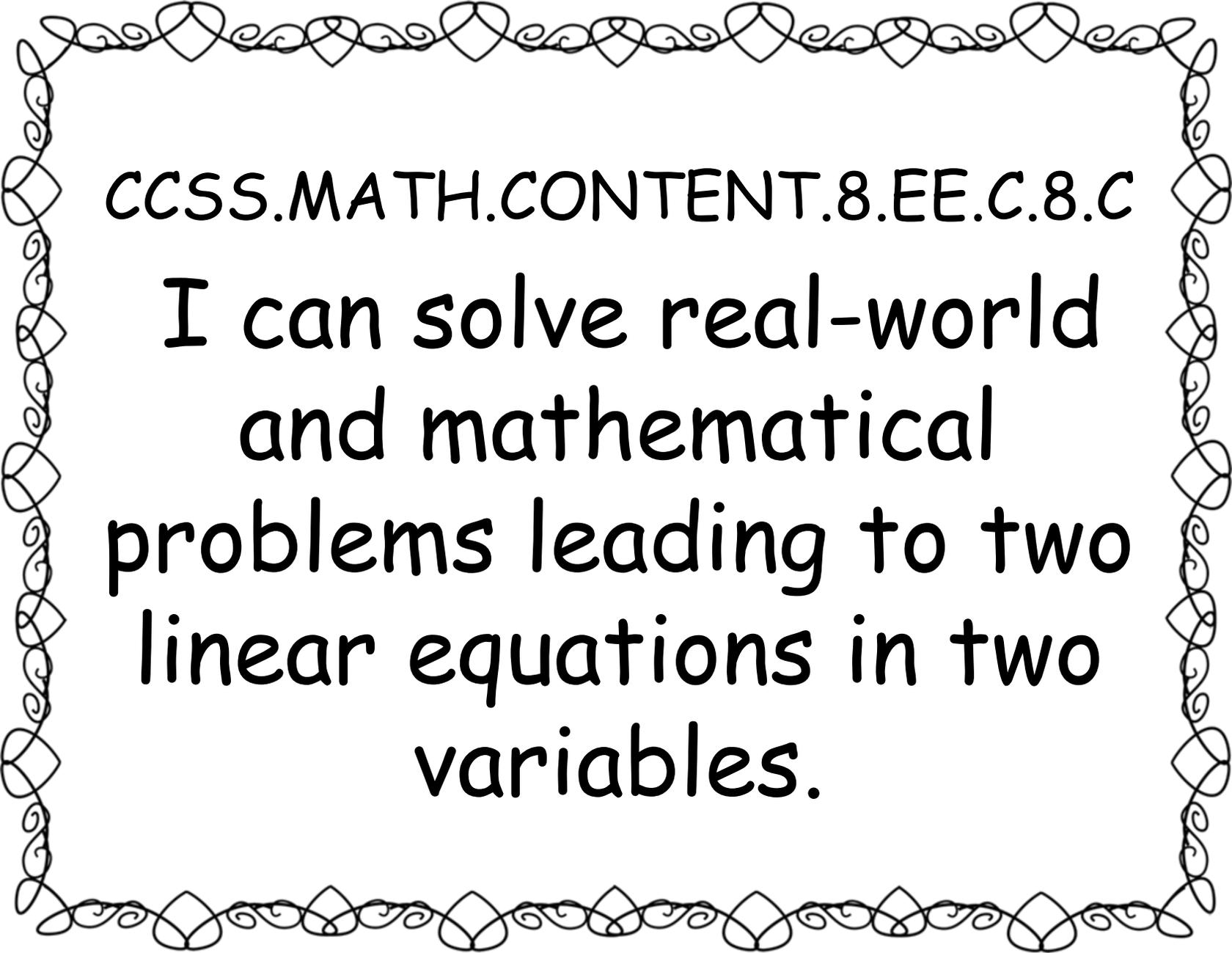
CCSS.MATH.CONTENT.8.EE.C.8.B

I can identify cases in which a system of two equations in two unknowns has no solution or an infinite number of solutions.



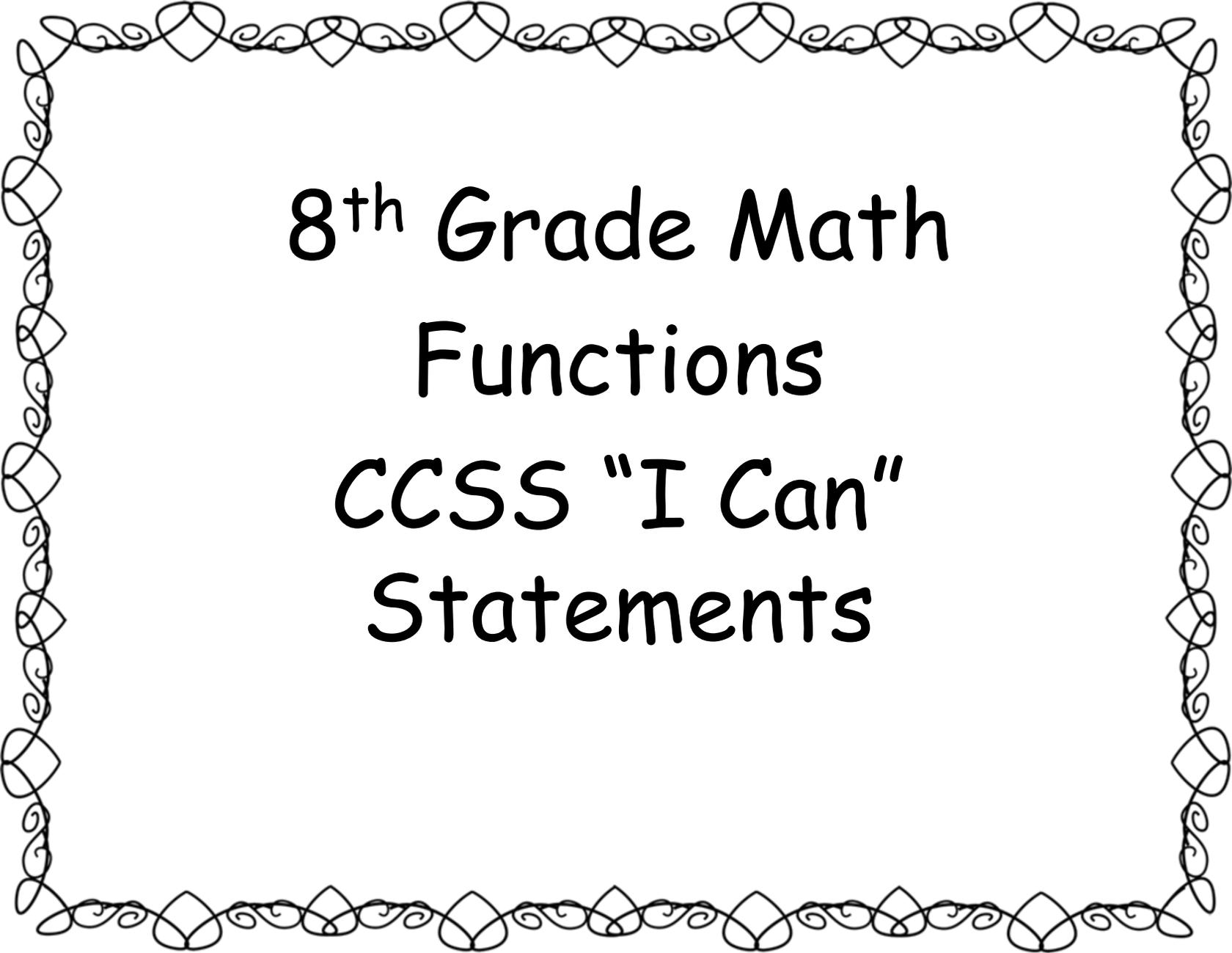
CCSS.MATH.CONTENT.8.EE.C.8.B

I can solve simple cases
of systems of two
linear equations in two
variables by inspection.

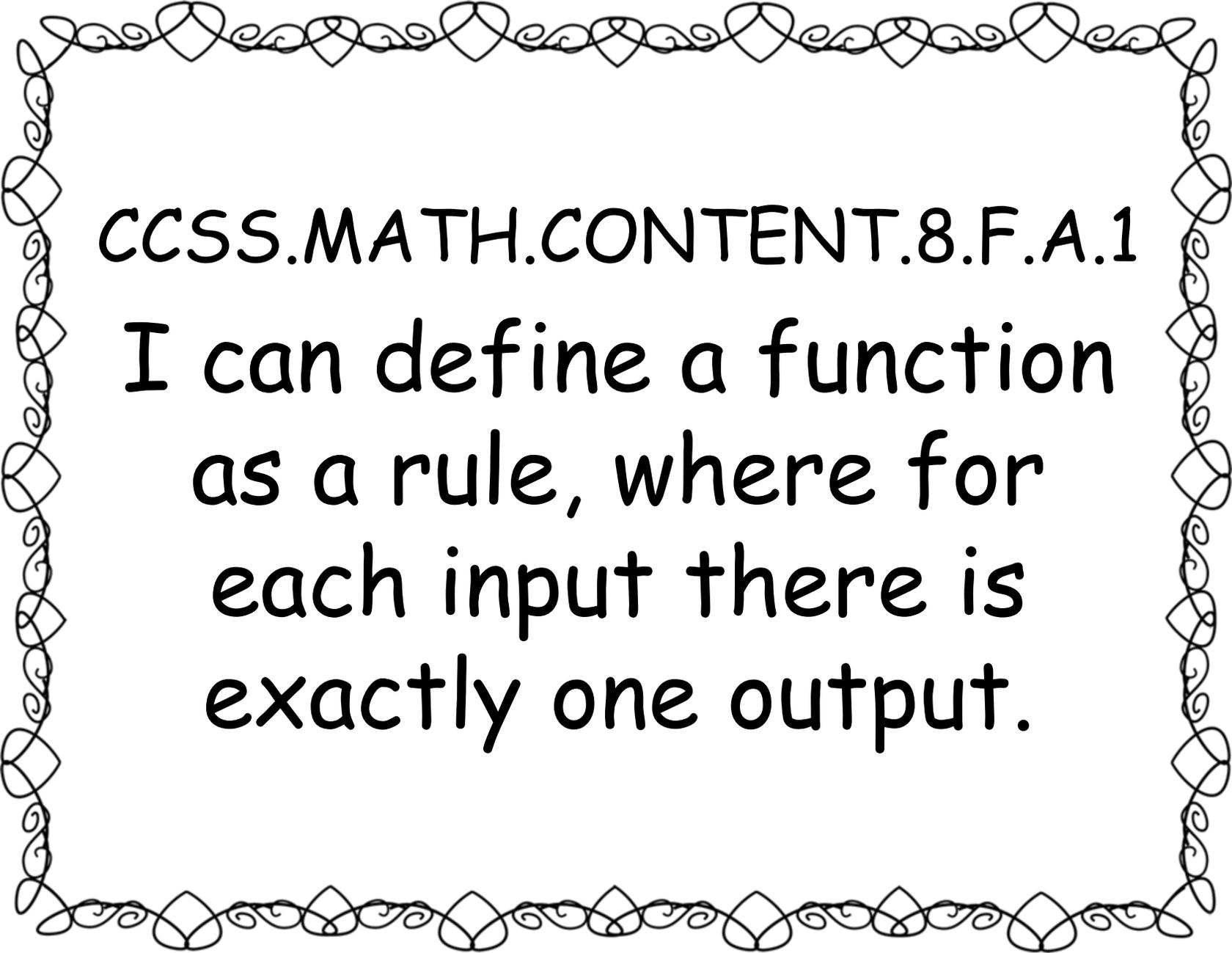


CCSS.MATH.CONTENT.8.EE.C.8.C

I can solve real-world
and mathematical
problems leading to two
linear equations in two
variables.

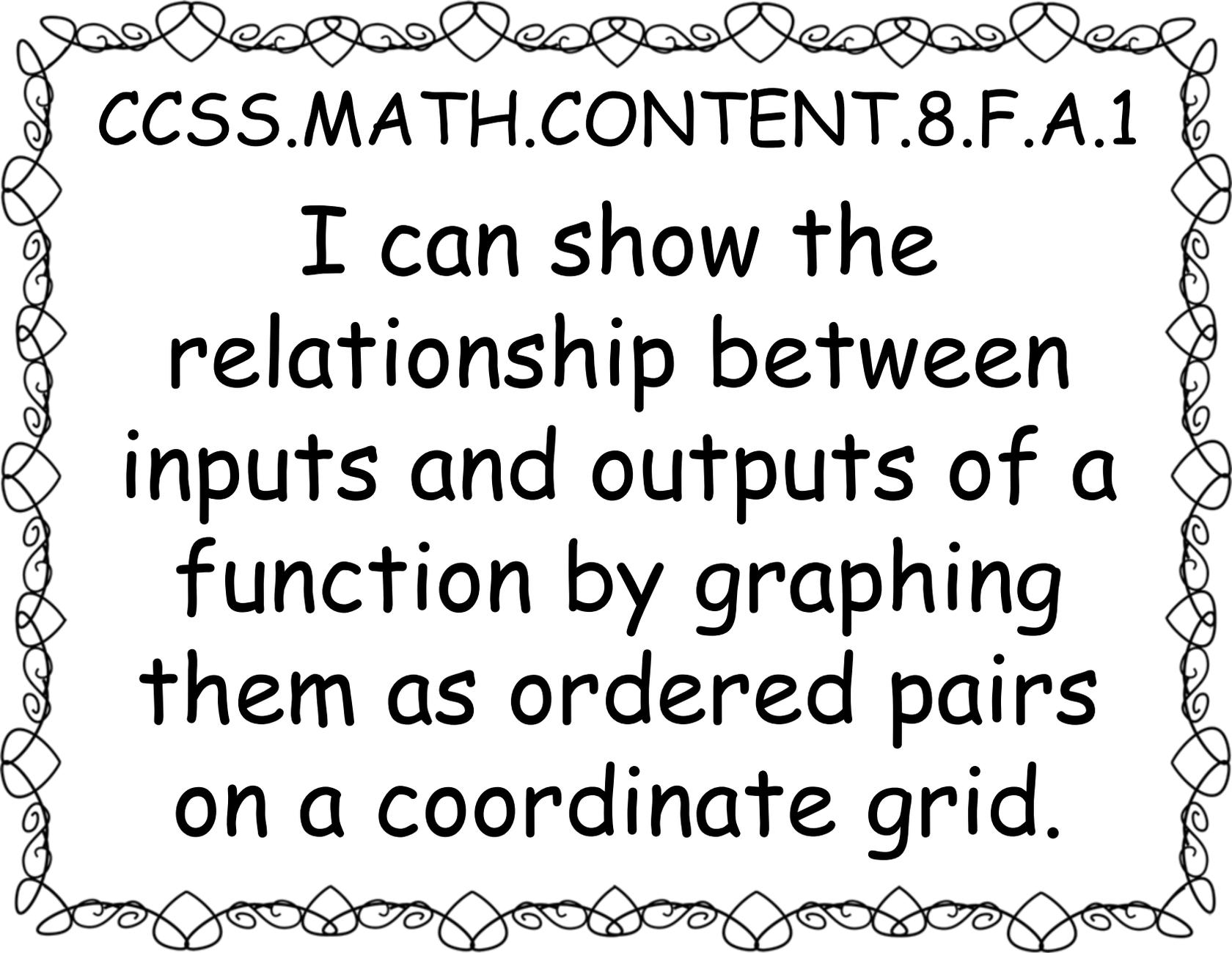


8th Grade Math
Functions
CCSS "I Can"
Statements



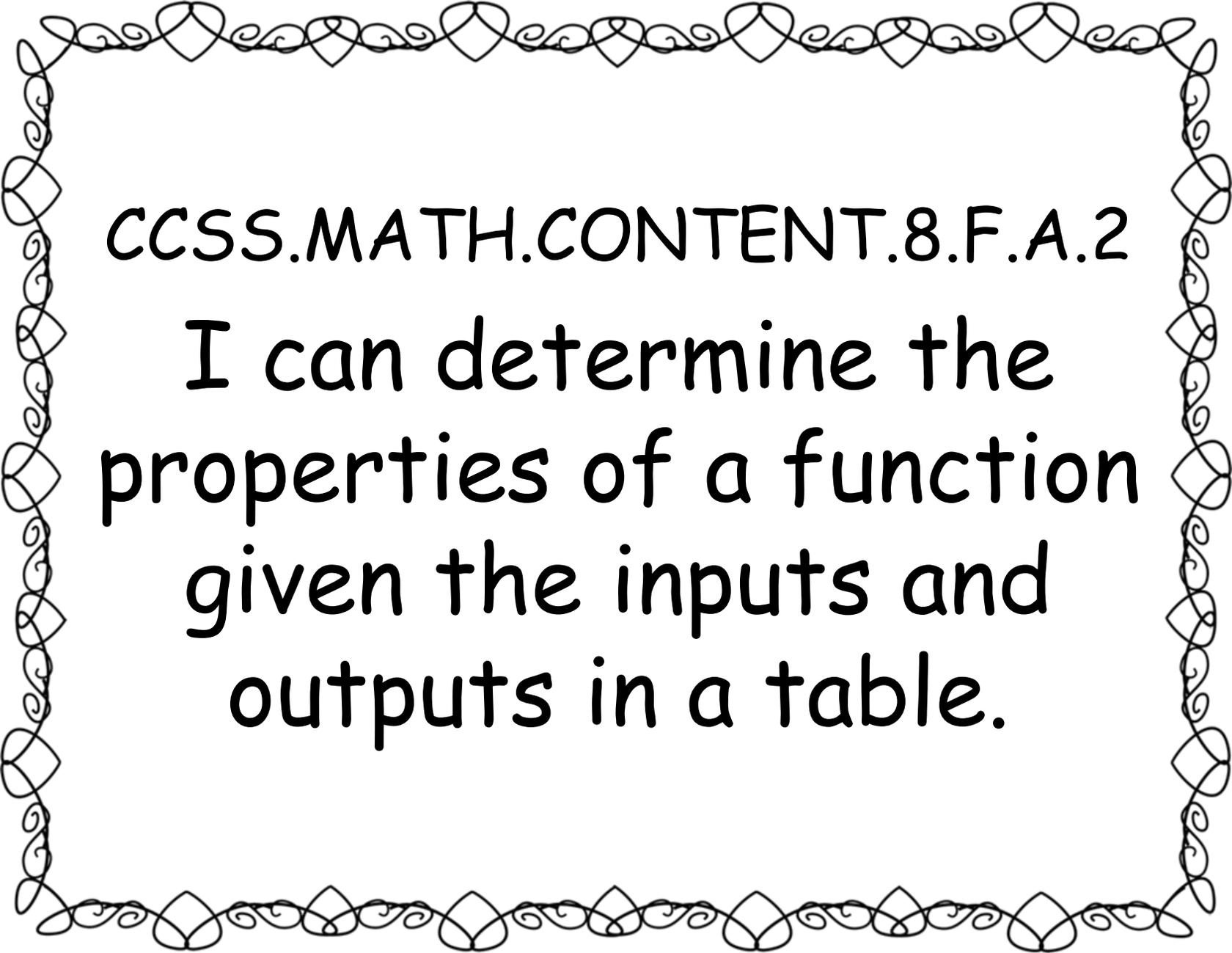
CCSS.MATH.CONTENT.8.F.A.1

I can define a function as a rule, where for each input there is exactly one output.



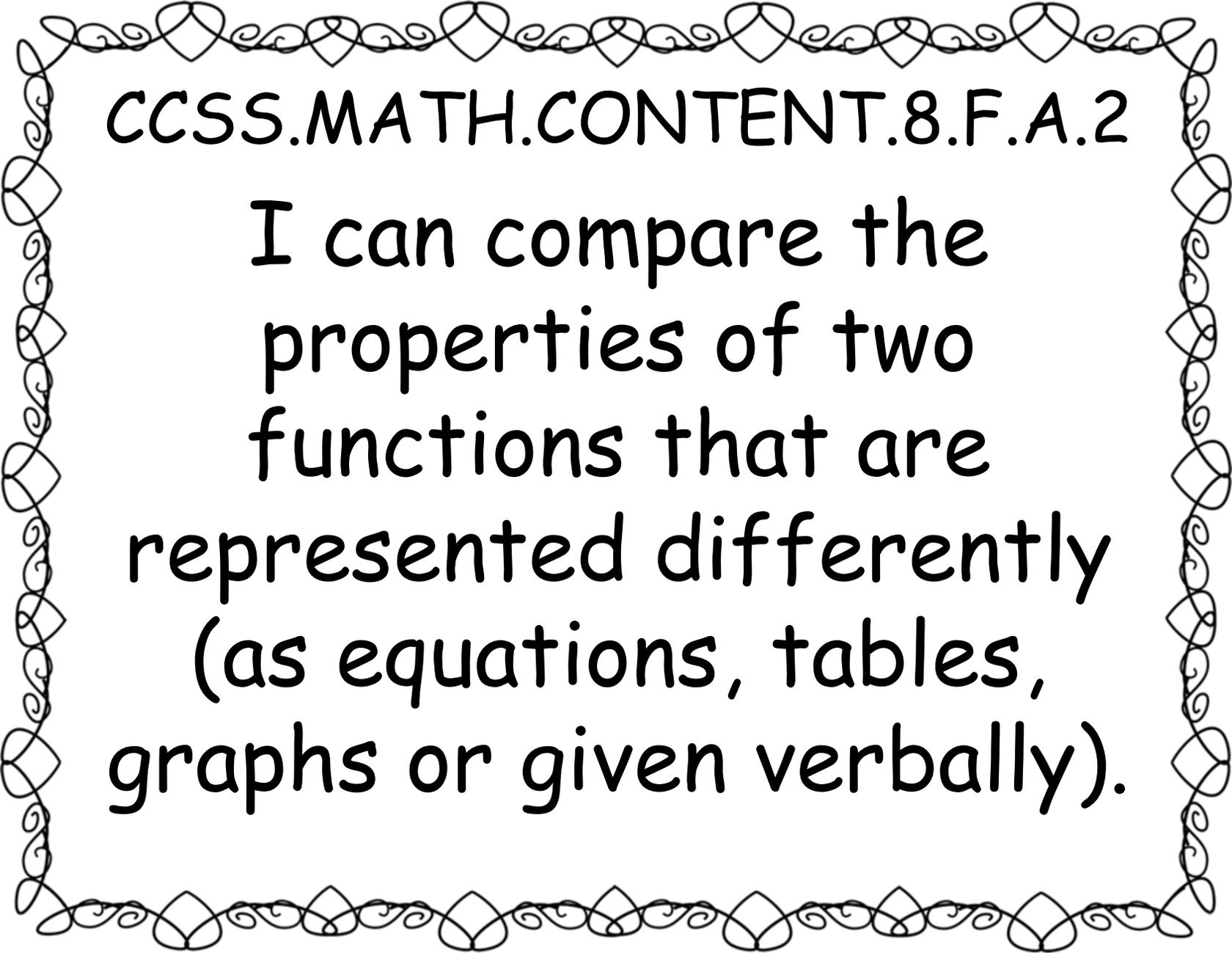
CCSS.MATH.CONTENT.8.F.A.1

I can show the relationship between inputs and outputs of a function by graphing them as ordered pairs on a coordinate grid.



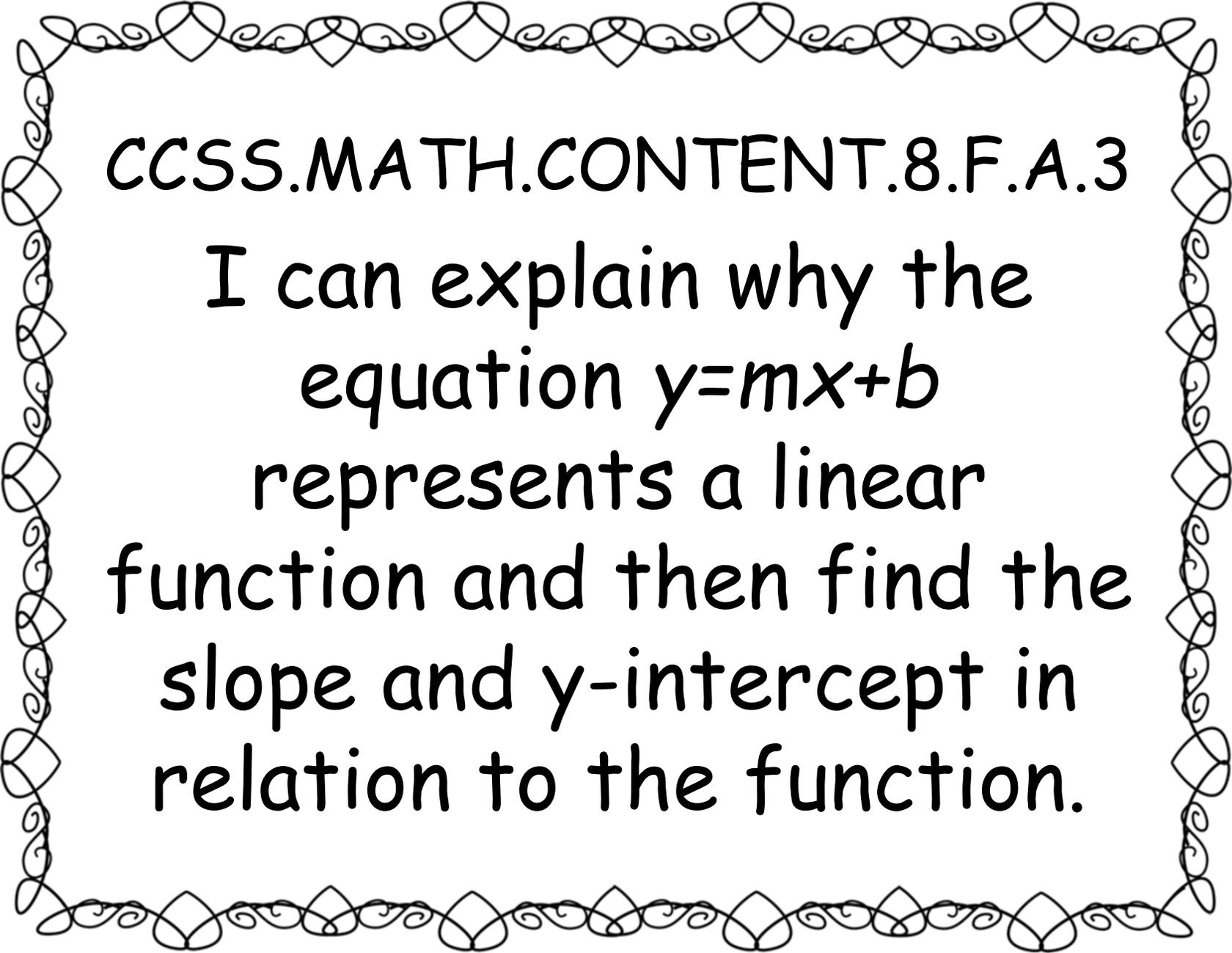
CCSS.MATH.CONTENT.8.F.A.2

I can determine the
properties of a function
given the inputs and
outputs in a table.



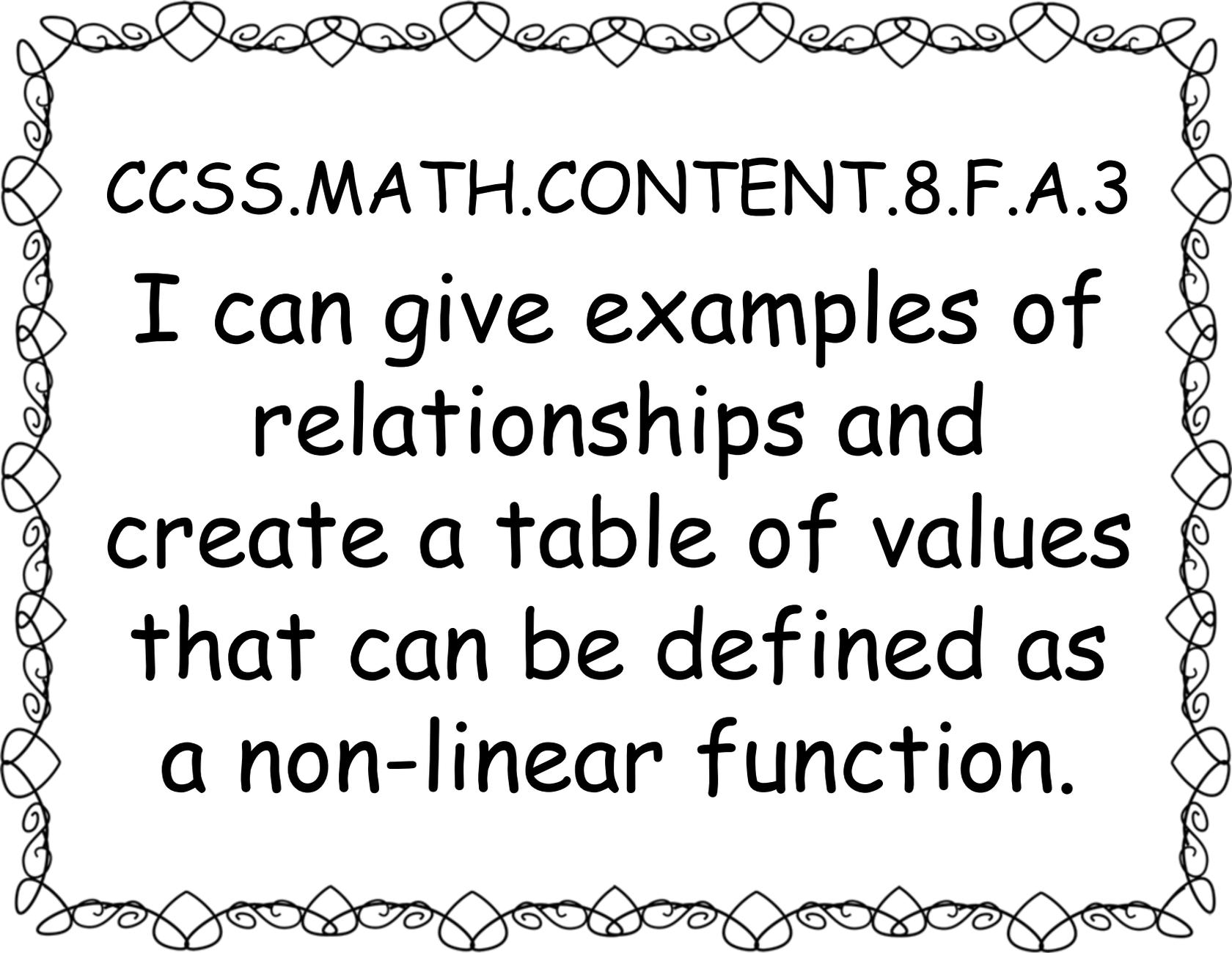
CCSS.MATH.CONTENT.8.F.A.2

I can compare the properties of two functions that are represented differently (as equations, tables, graphs or given verbally).



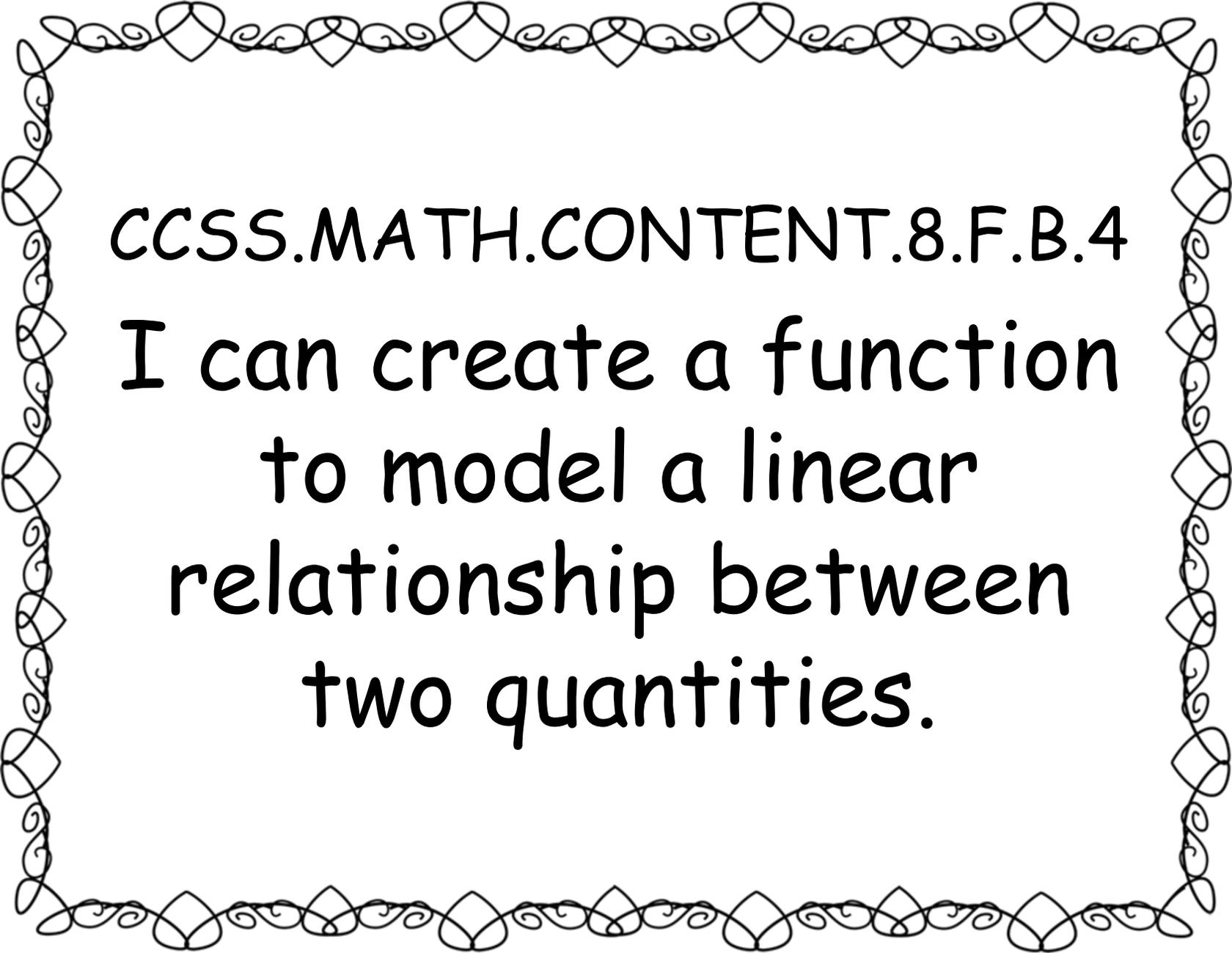
CCSS.MATH.CONTENT.8.F.A.3

I can explain why the equation $y=mx+b$ represents a linear function and then find the slope and y-intercept in relation to the function.



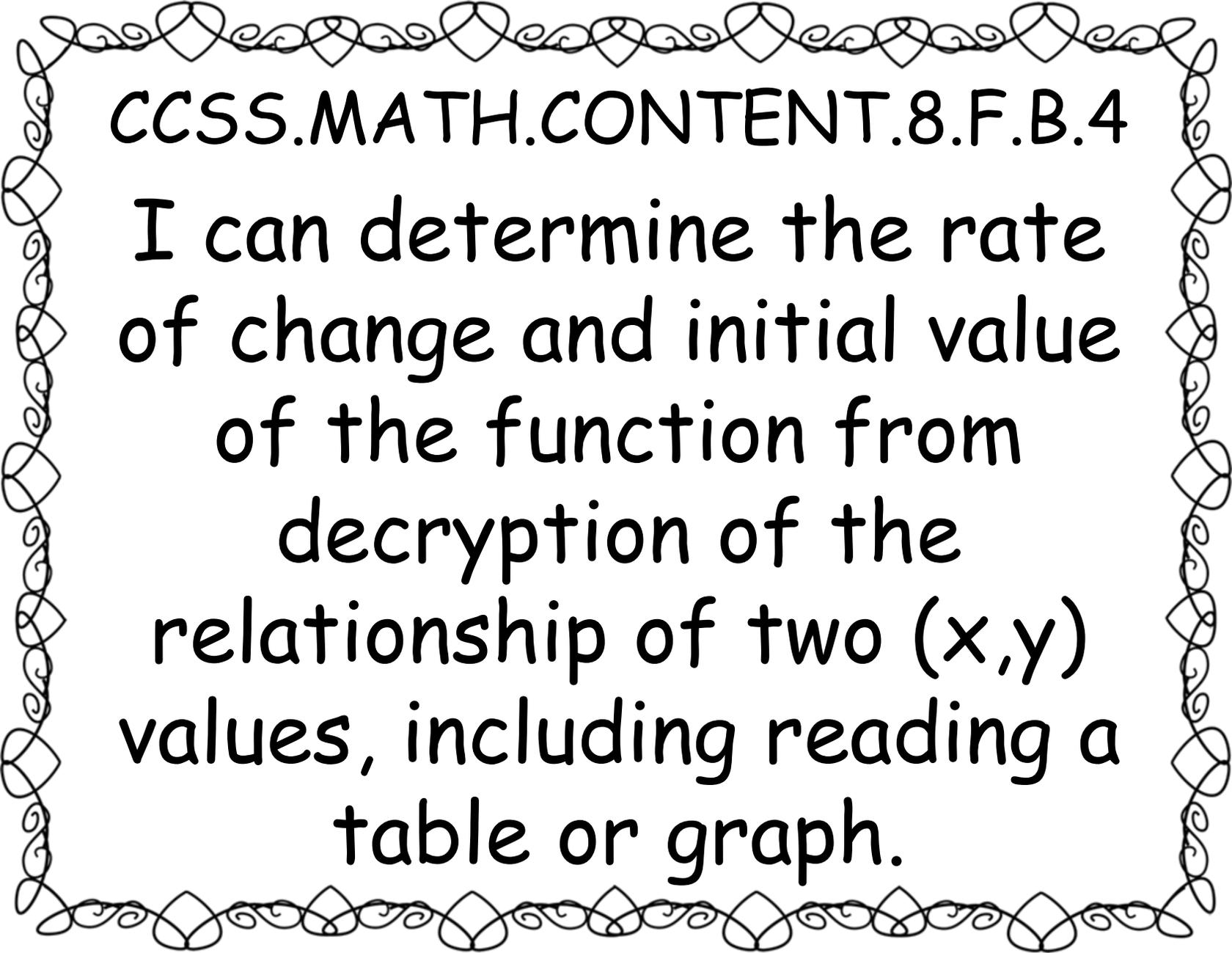
CCSS.MATH.CONTENT.8.F.A.3

I can give examples of relationships and create a table of values that can be defined as a non-linear function.



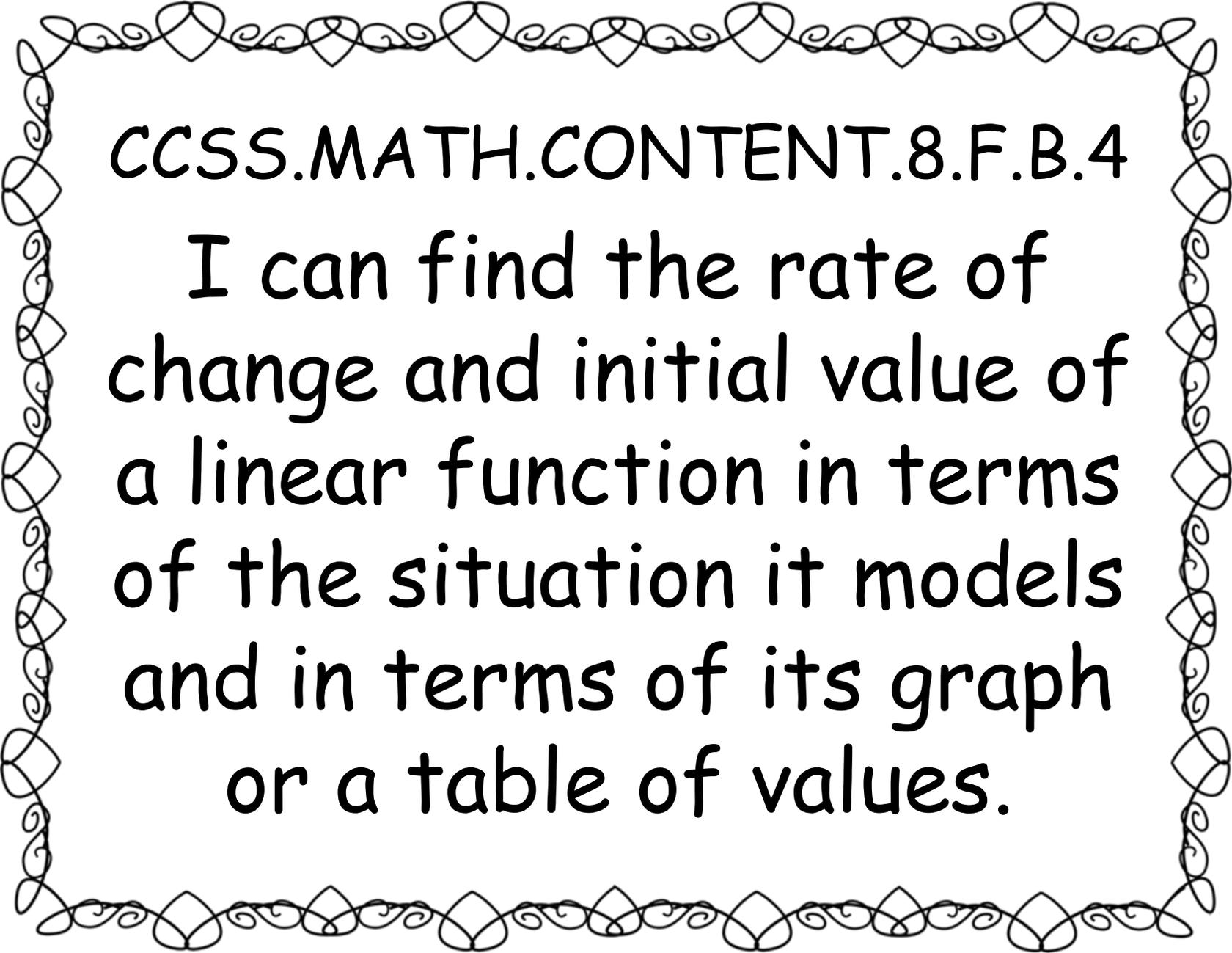
CCSS.MATH.CONTENT.8.F.B.4

I can create a function
to model a linear
relationship between
two quantities.



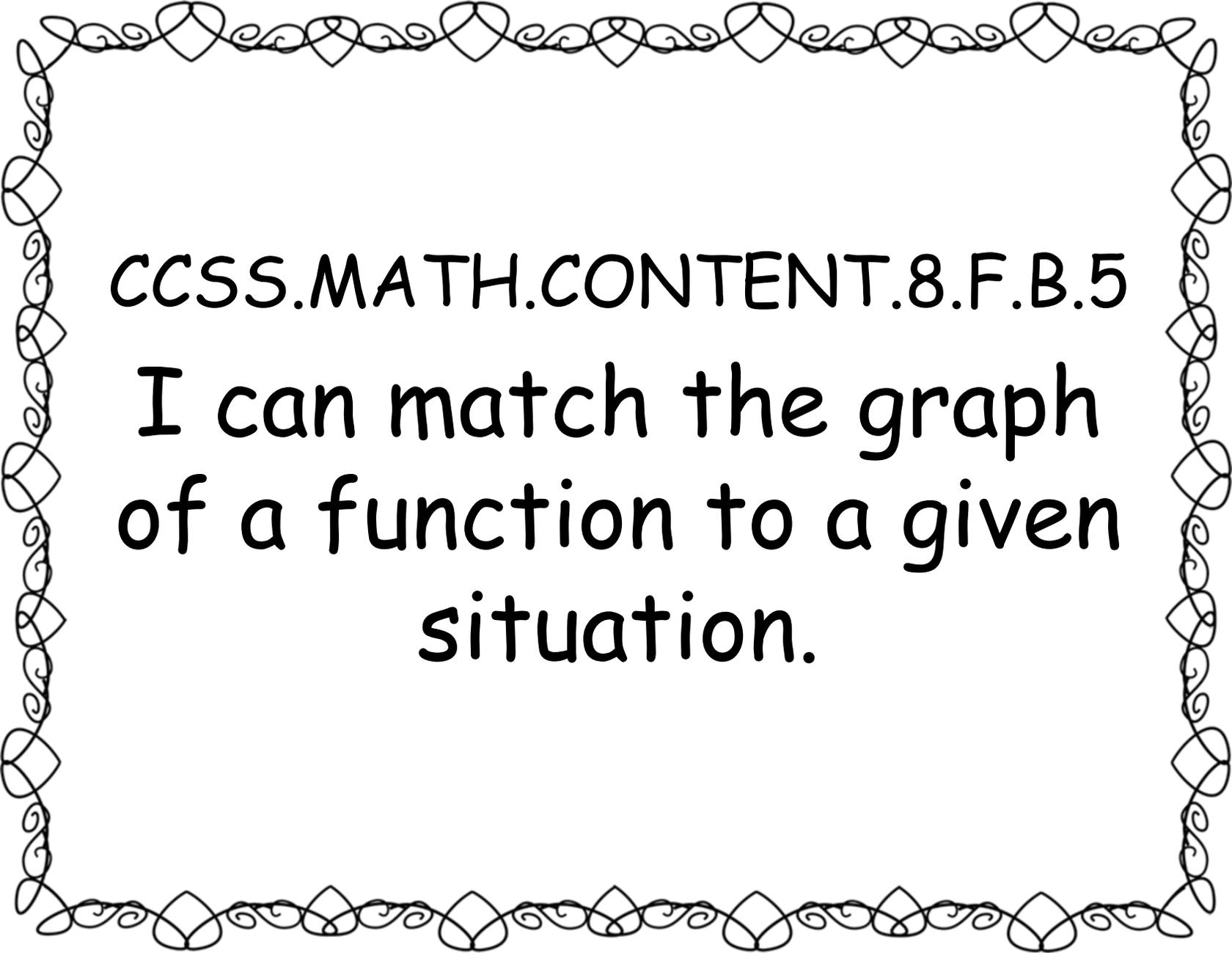
CCSS.MATH.CONTENT.8.F.B.4

I can determine the rate of change and initial value of the function from decryption of the relationship of two (x,y) values, including reading a table or graph.



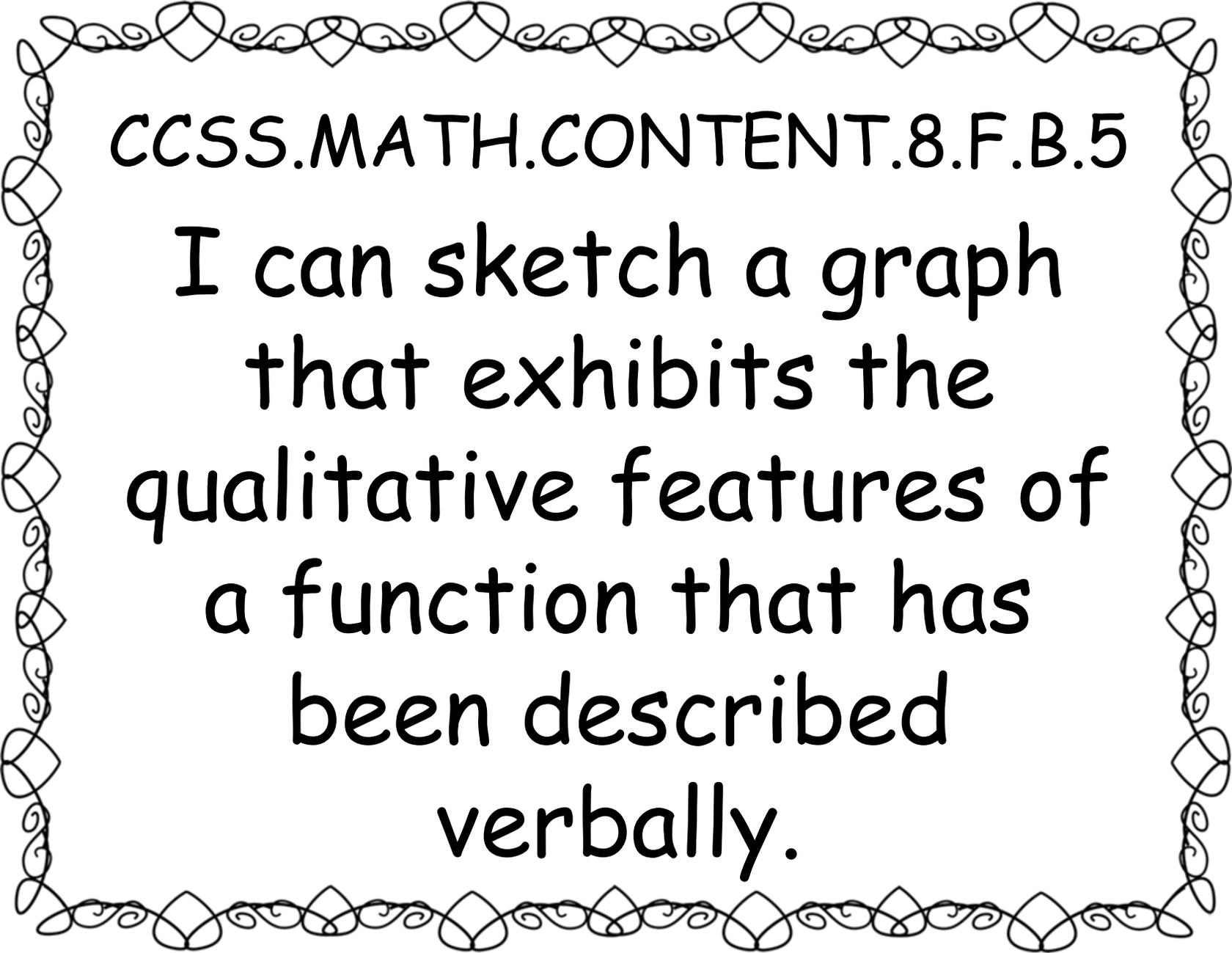
CCSS.MATH.CONTENT.8.F.B.4

I can find the rate of change and initial value of a linear function in terms of the situation it models and in terms of its graph or a table of values.



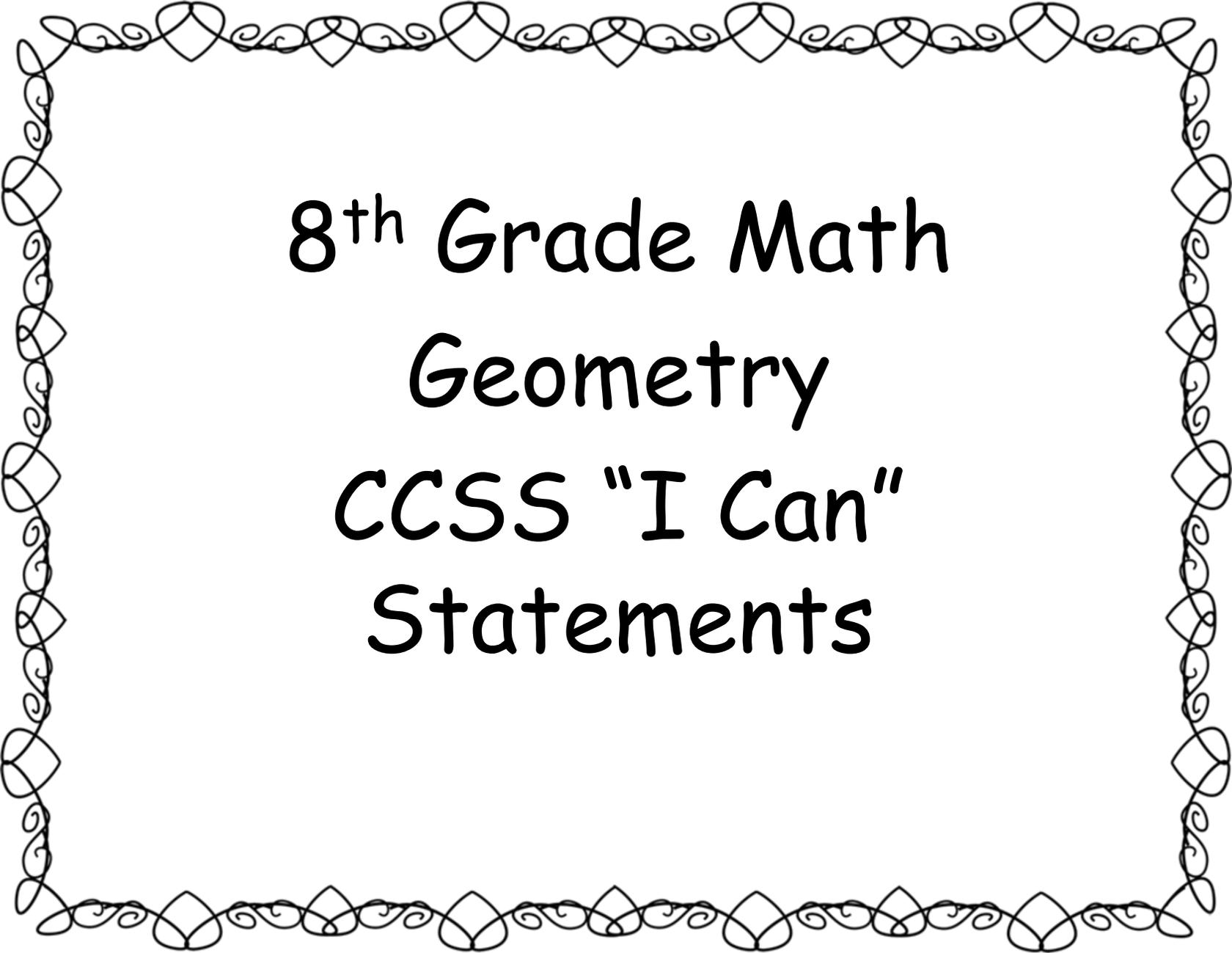
CCSS.MATH.CONTENT.8.F.B.5

I can match the graph
of a function to a given
situation.

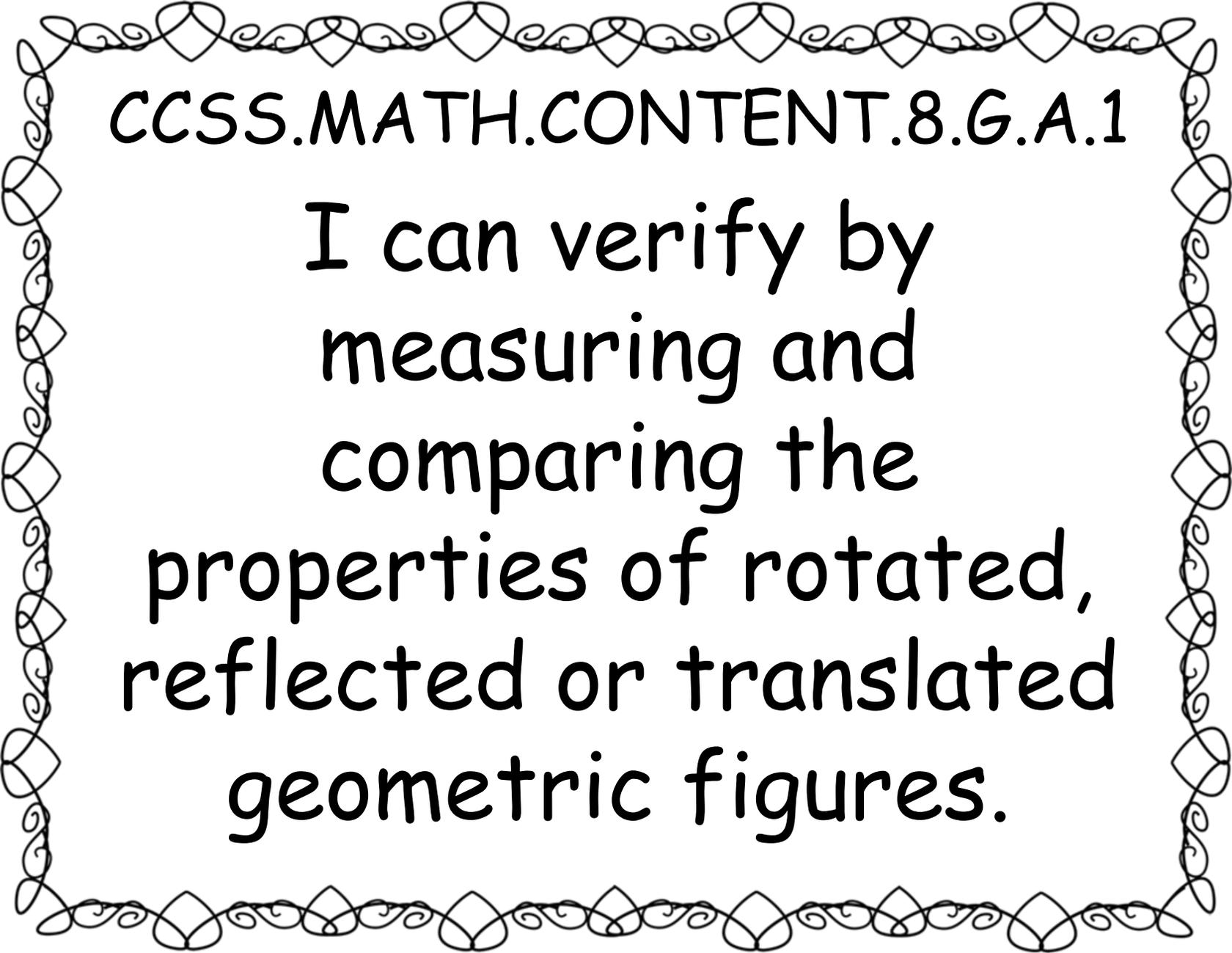


CCSS.MATH.CONTENT.8.F.B.5

I can sketch a graph
that exhibits the
qualitative features of
a function that has
been described
verbally.

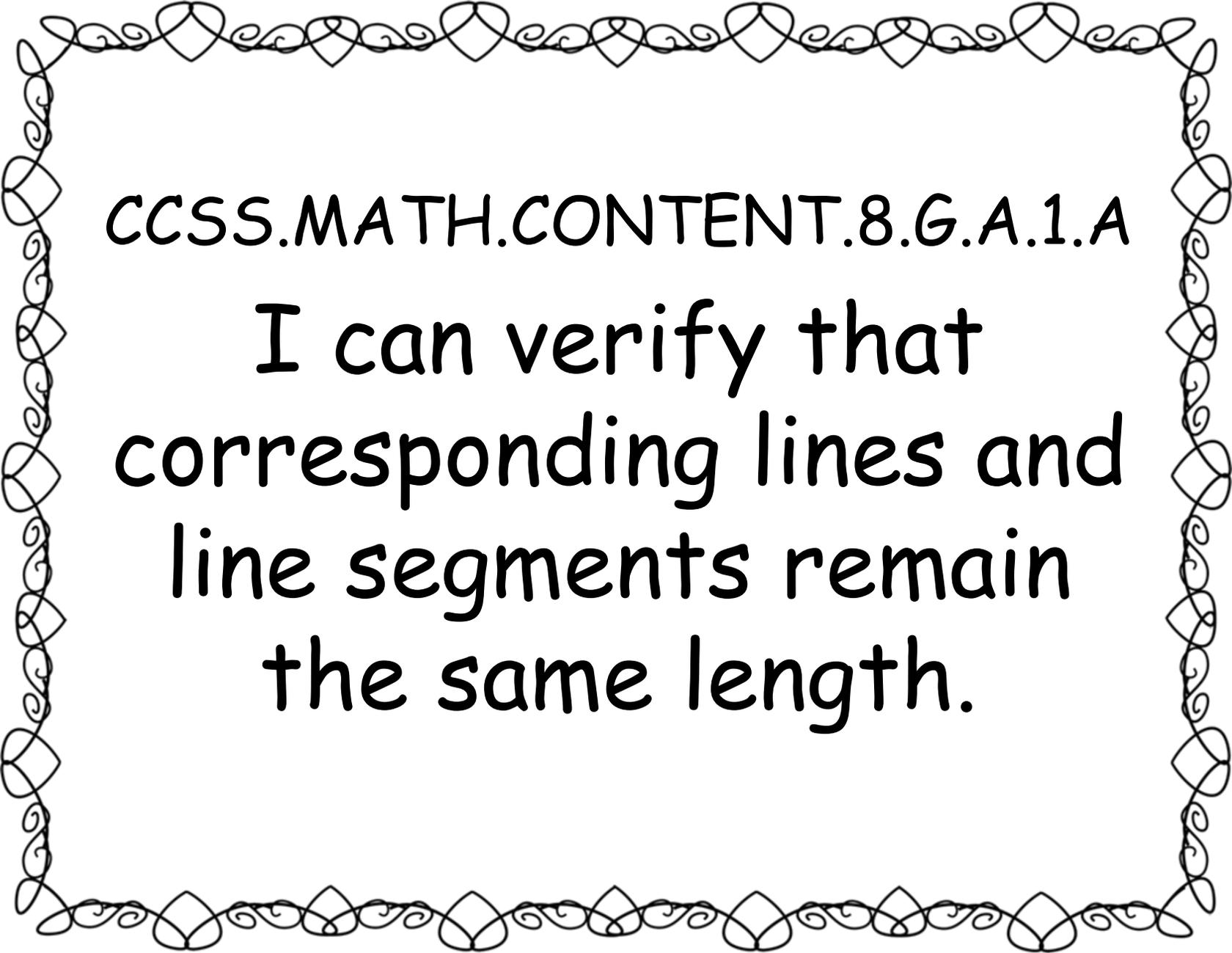


8th Grade Math
Geometry
CCSS "I Can"
Statements



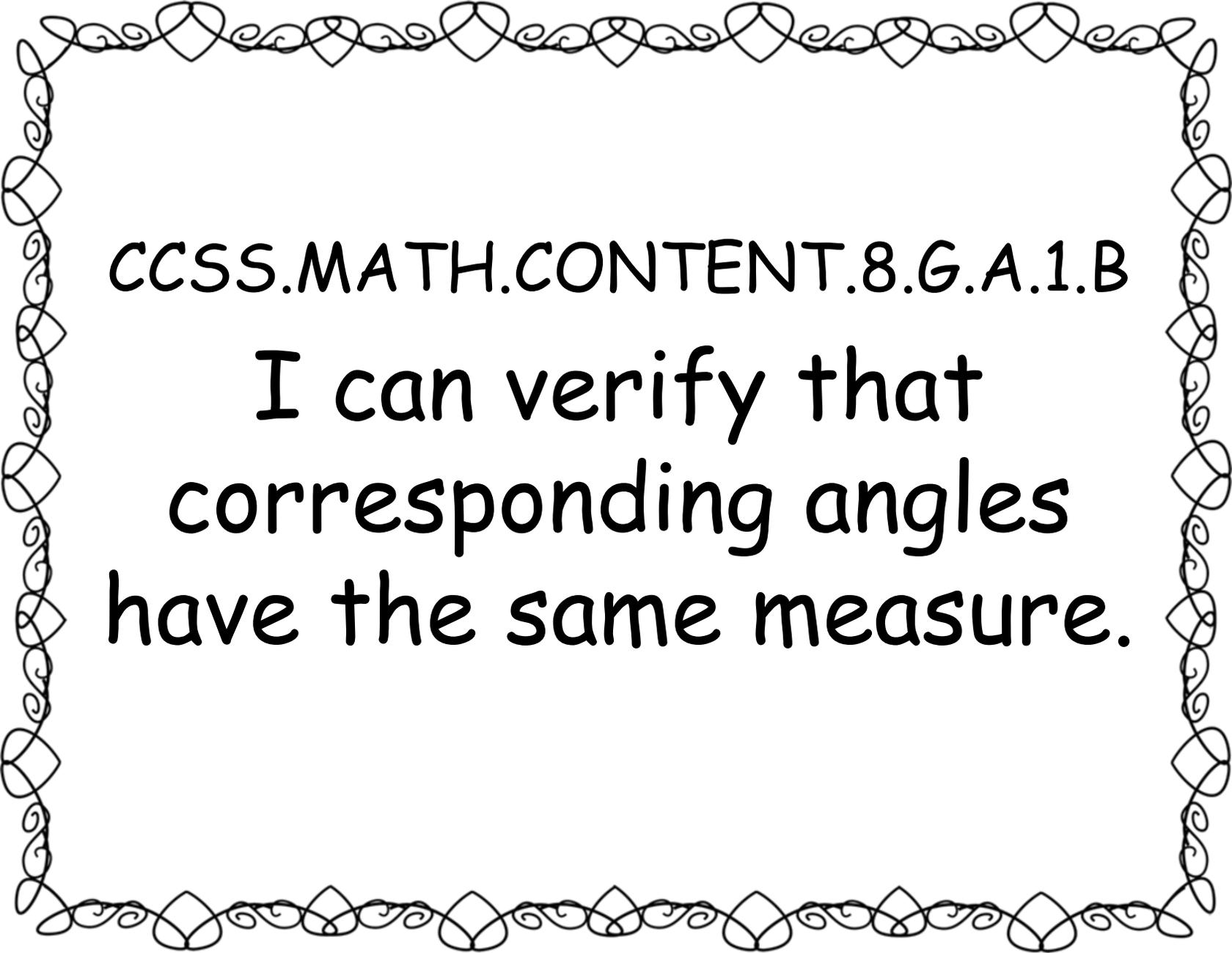
CCSS.MATH.CONTENT.8.G.A.1

I can verify by
measuring and
comparing the
properties of rotated,
reflected or translated
geometric figures.



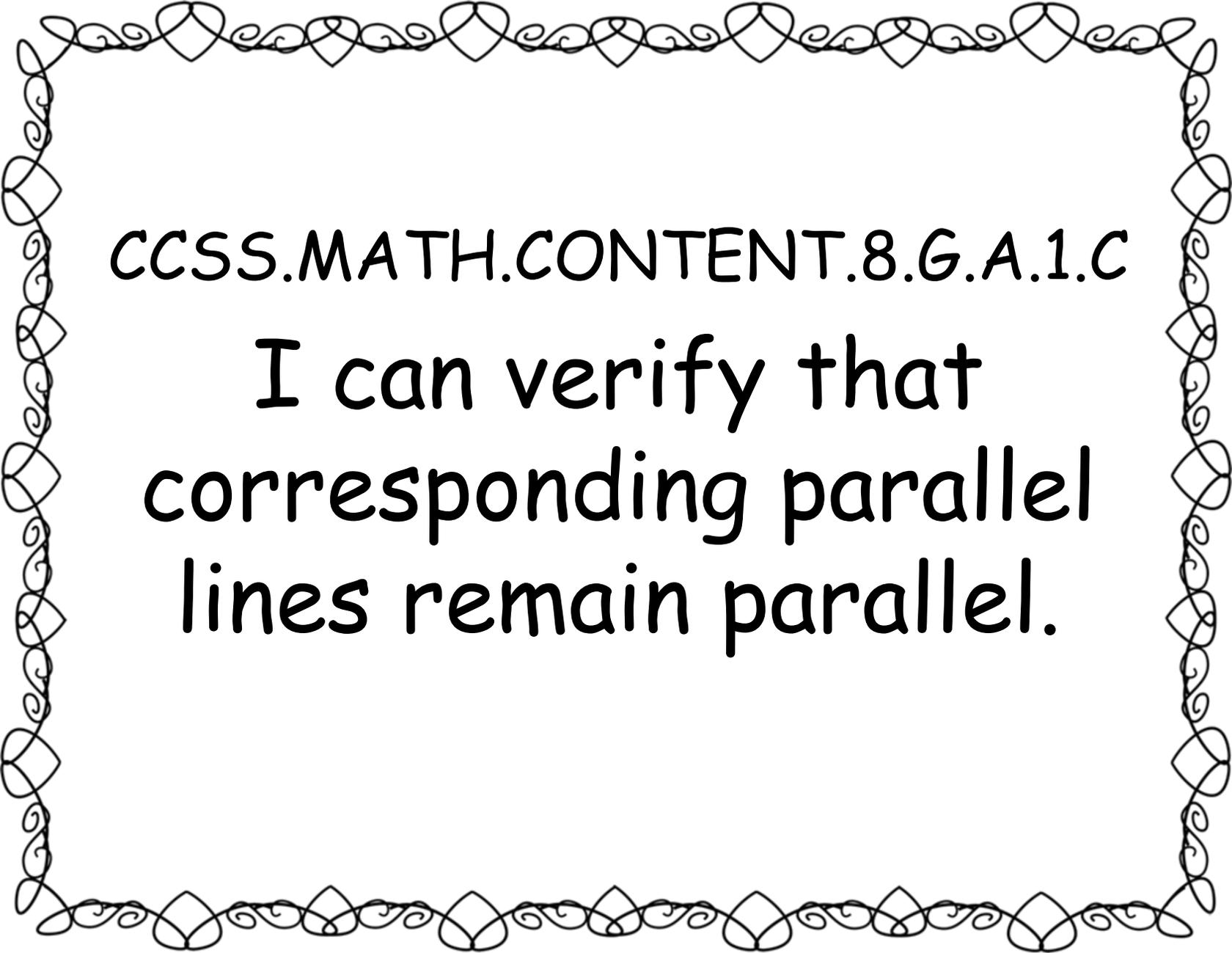
CCSS.MATH.CONTENT.8.G.A.1.A

I can verify that
corresponding lines and
line segments remain
the same length.



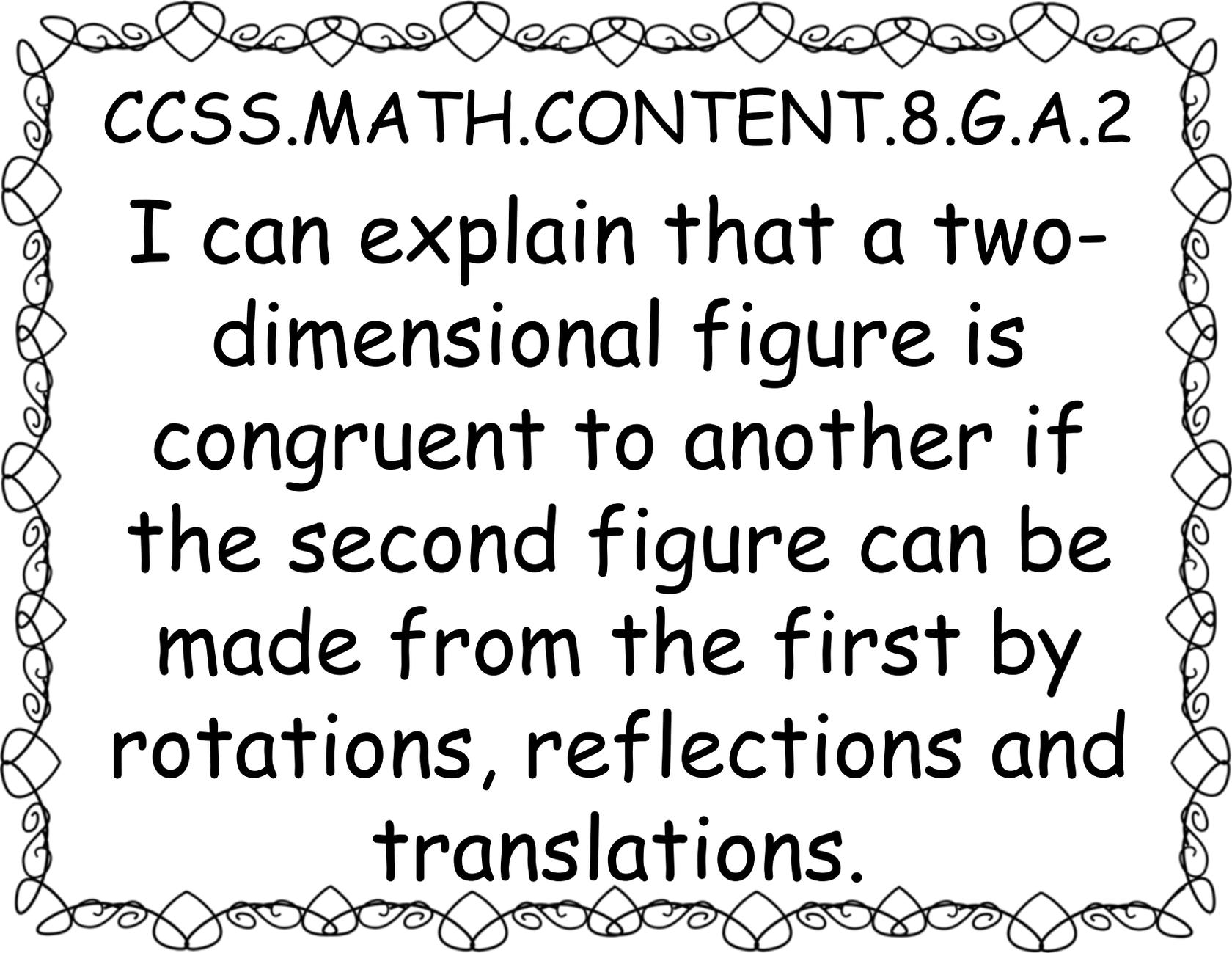
CCSS.MATH.CONTENT.8.G.A.1.B

I can verify that
corresponding angles
have the same measure.



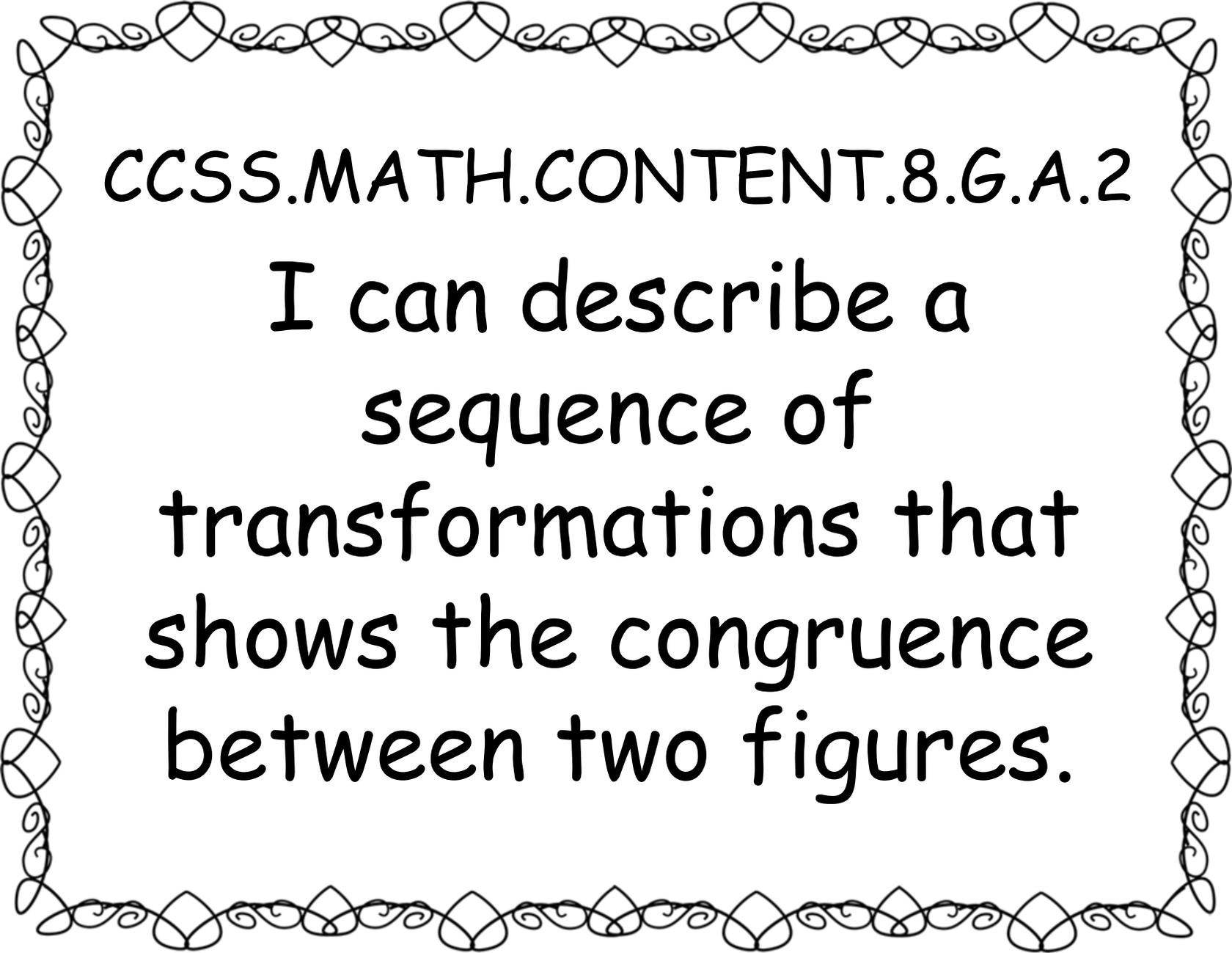
CCSS.MATH.CONTENT.8.G.A.1.C

I can verify that
corresponding parallel
lines remain parallel.



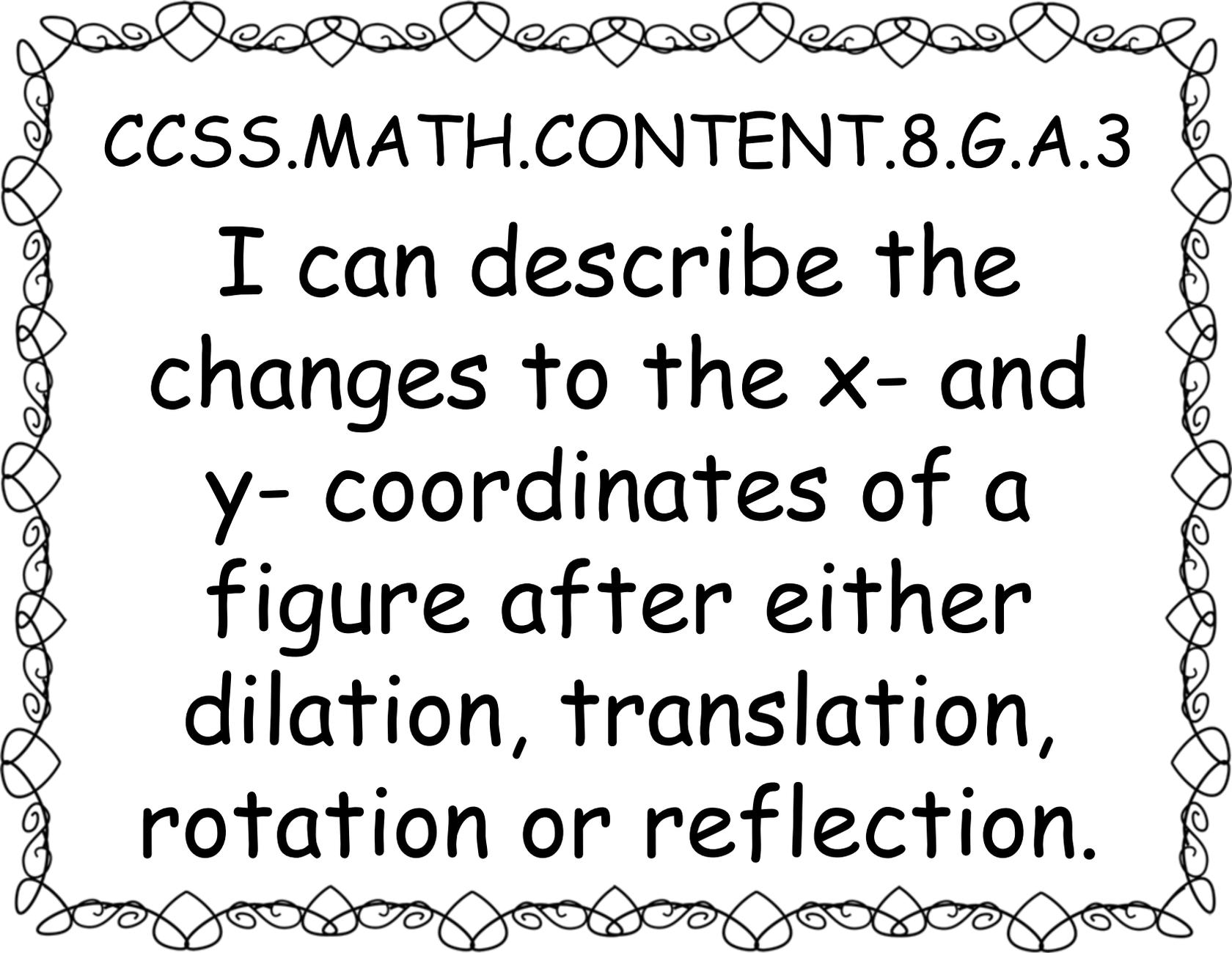
CCSS.MATH.CONTENT.8.G.A.2

I can explain that a two-dimensional figure is congruent to another if the second figure can be made from the first by rotations, reflections and translations.



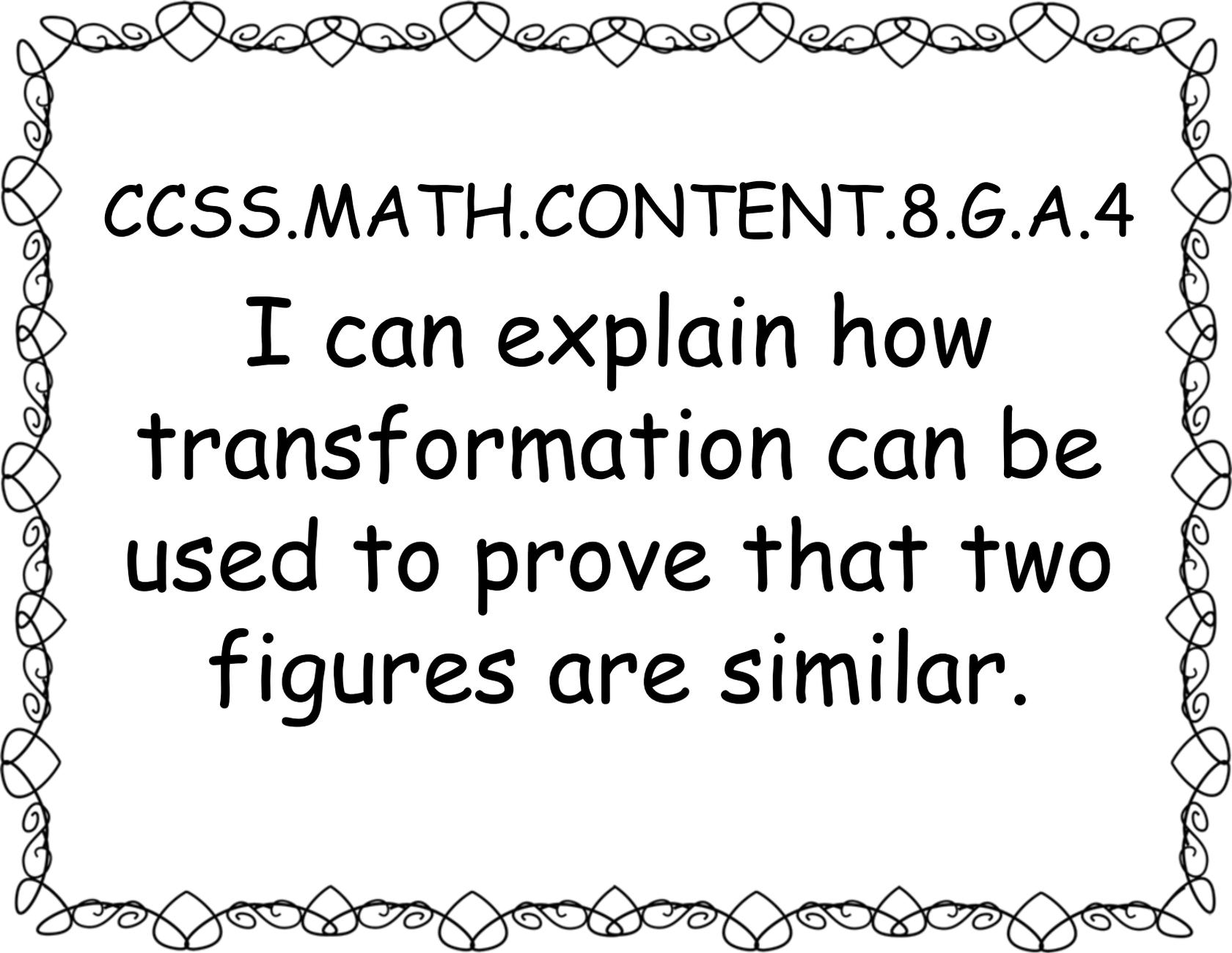
CCSS.MATH.CONTENT.8.G.A.2

I can describe a
sequence of
transformations that
shows the congruence
between two figures.



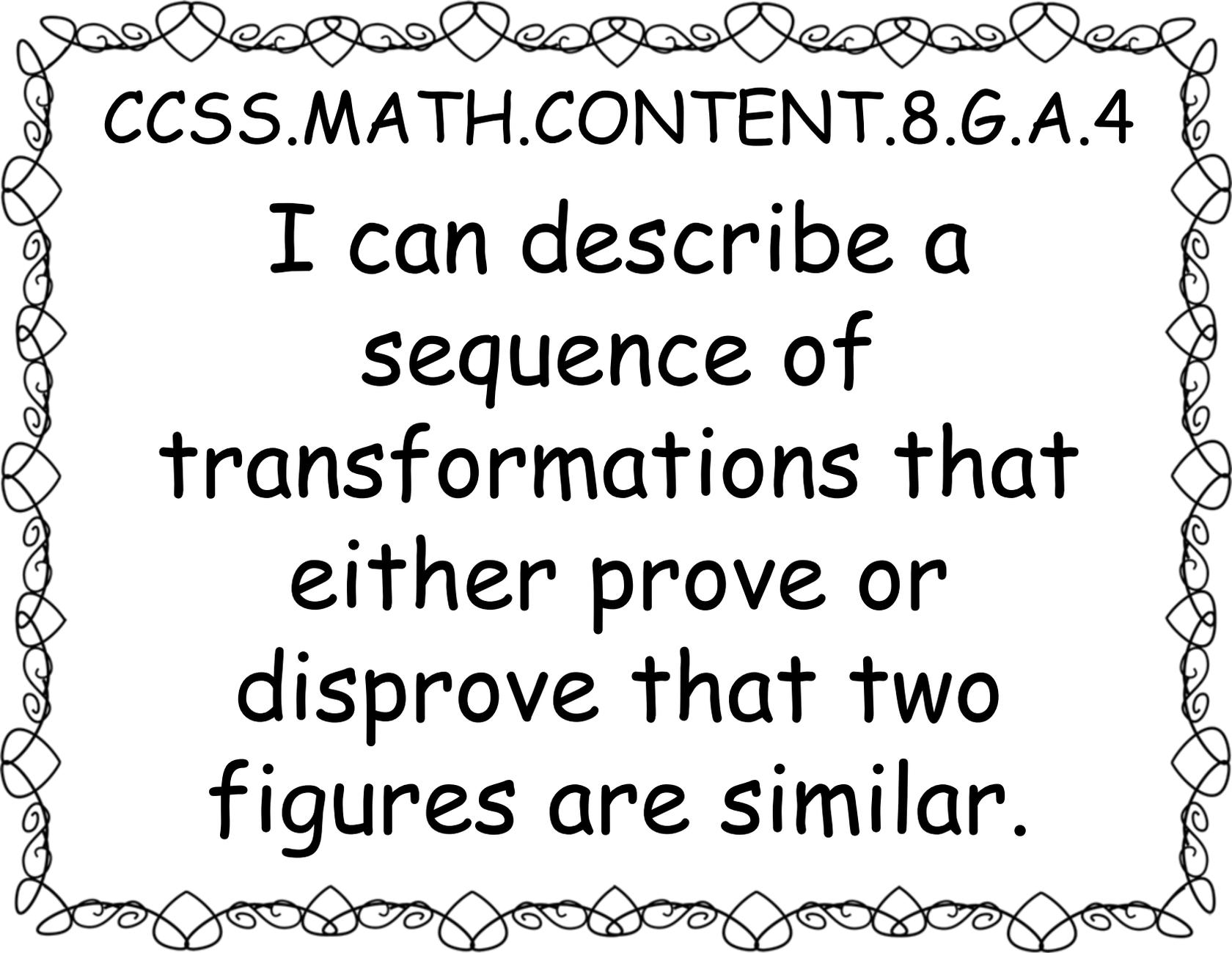
CCSS.MATH.CONTENT.8.G.A.3

I can describe the changes to the x- and y- coordinates of a figure after either dilation, translation, rotation or reflection.



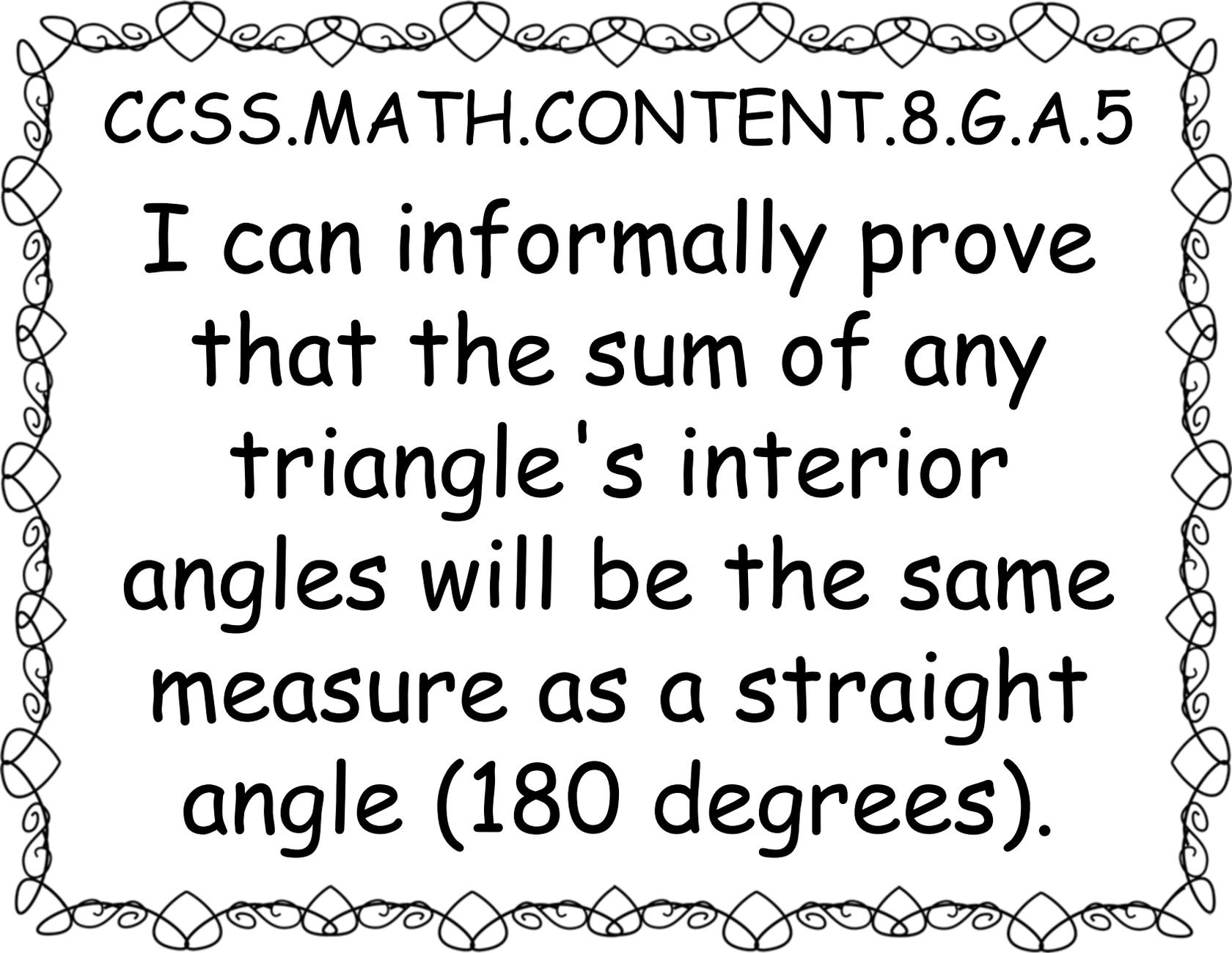
CCSS.MATH.CONTENT.8.G.A.4

I can explain how
transformation can be
used to prove that two
figures are similar.



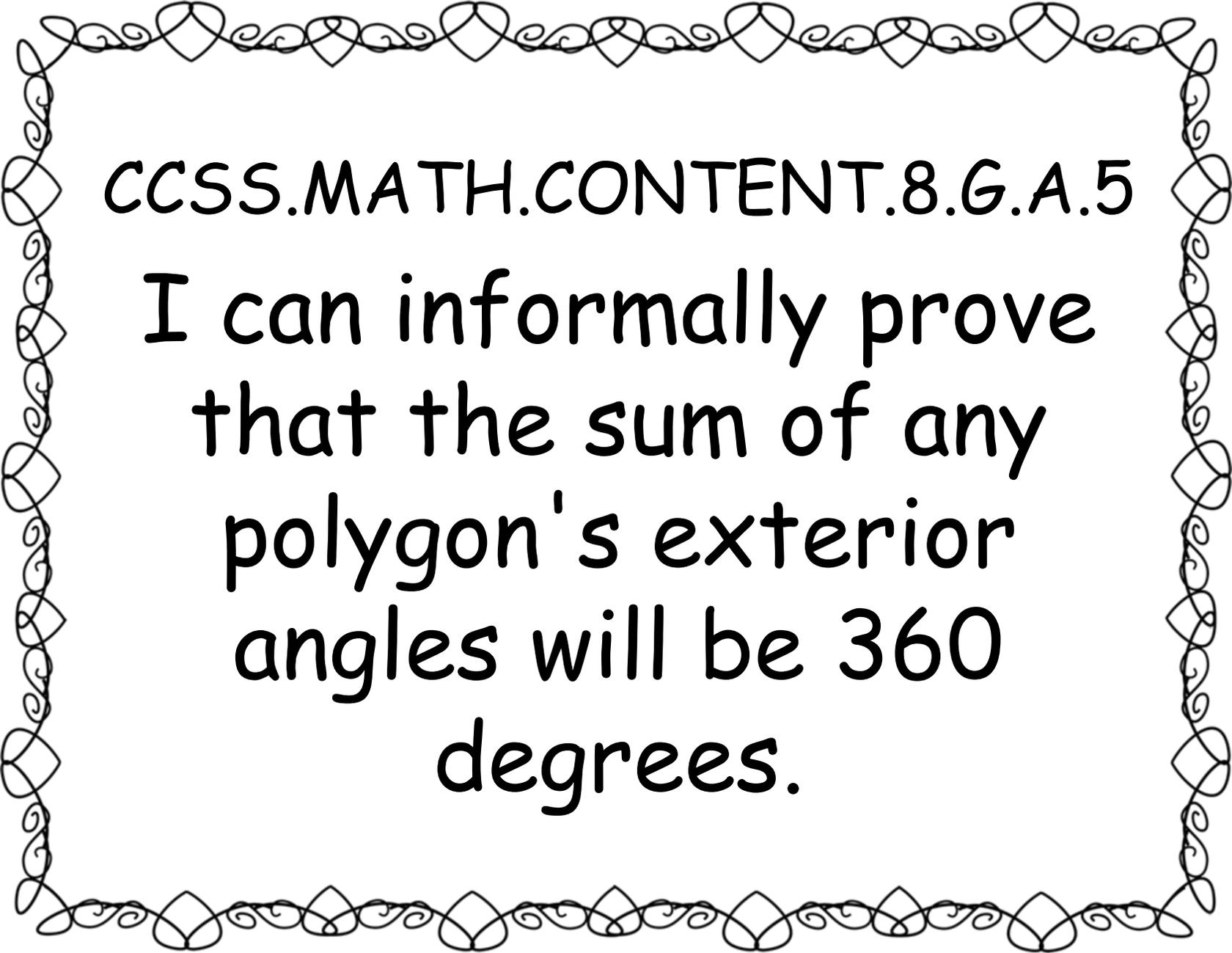
CCSS.MATH.CONTENT.8.G.A.4

I can describe a
sequence of
transformations that
either prove or
disprove that two
figures are similar.



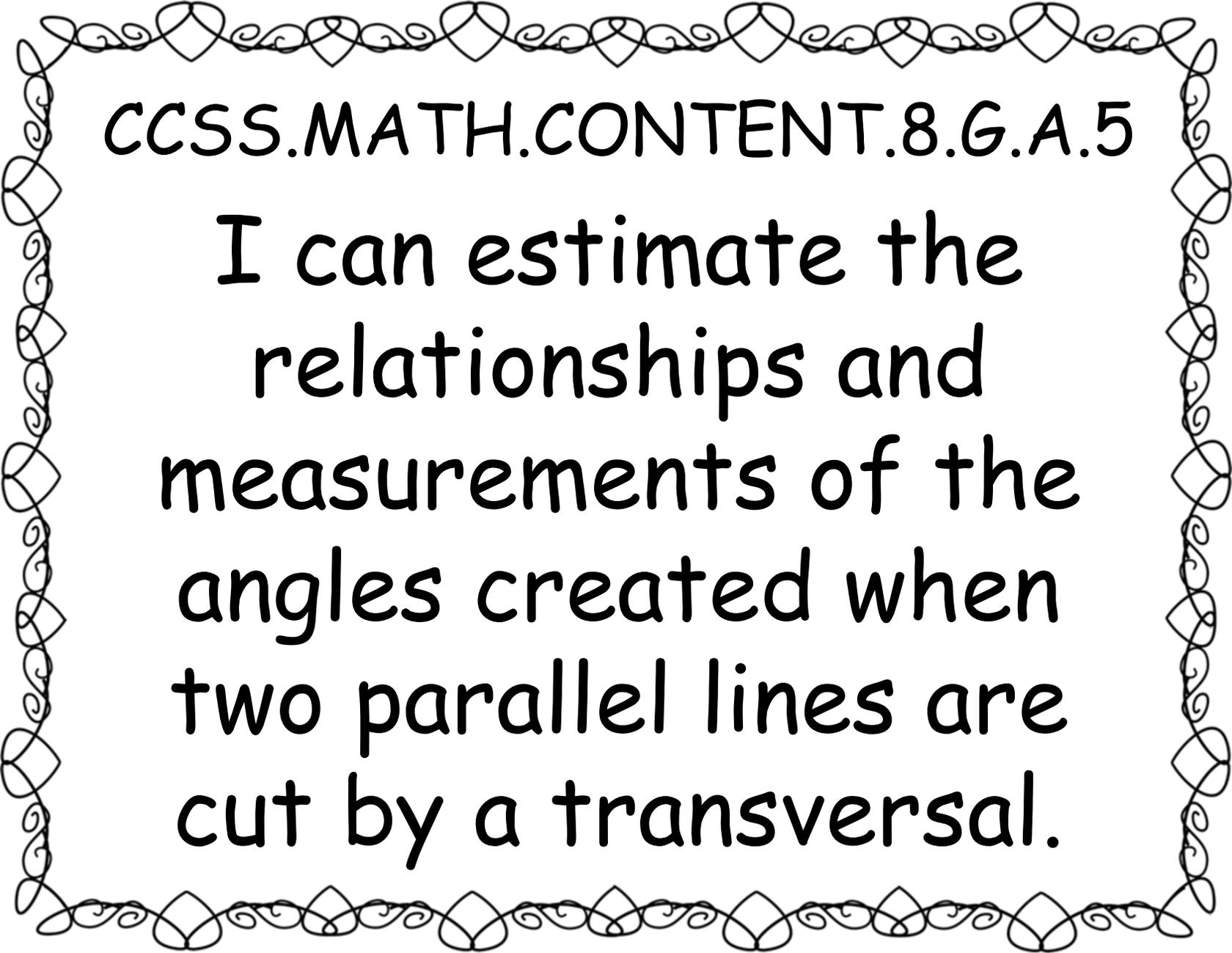
CCSS.MATH.CONTENT.8.G.A.5

I can informally prove
that the sum of any
triangle's interior
angles will be the same
measure as a straight
angle (180 degrees).



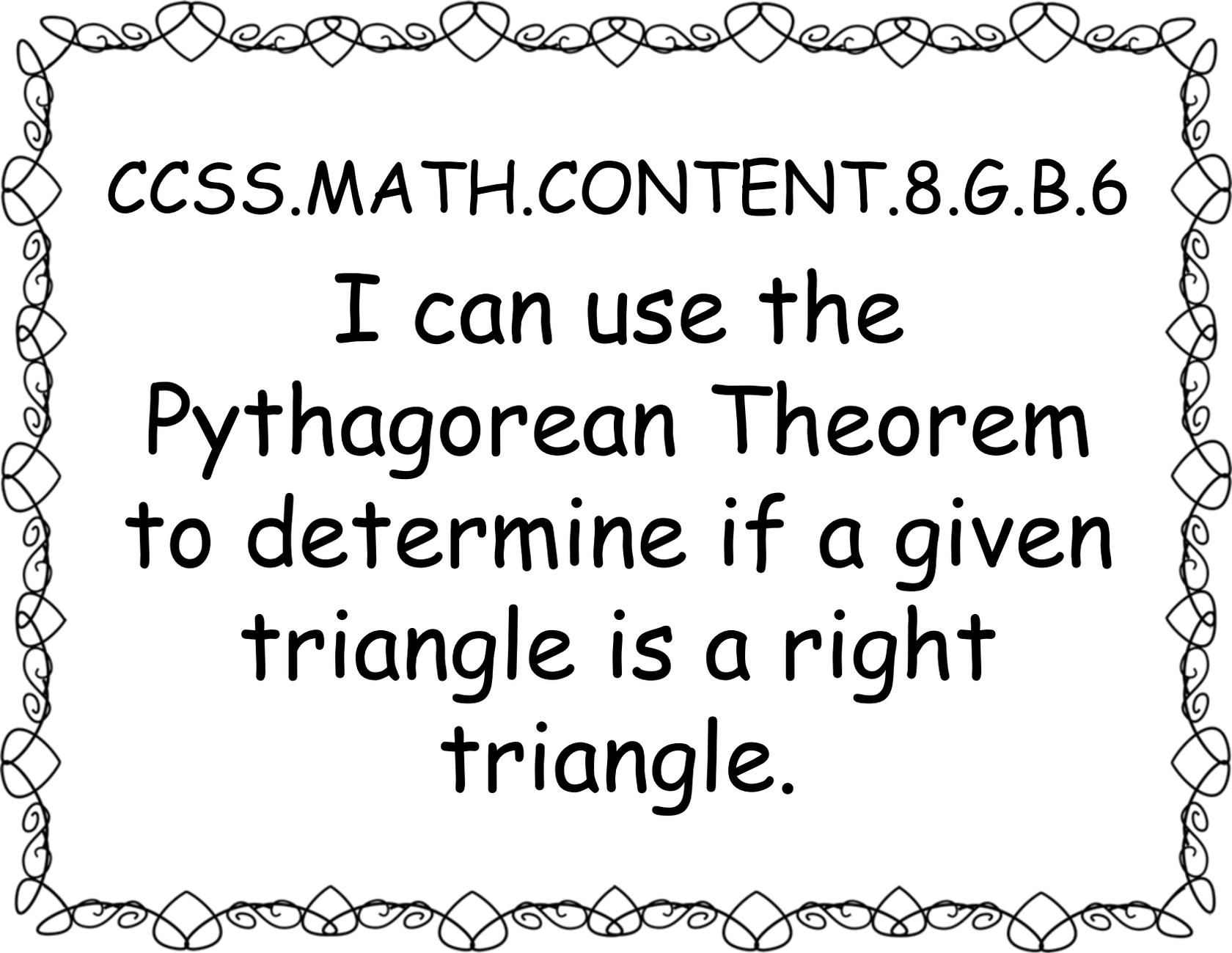
CCSS.MATH.CONTENT.8.G.A.5

I can informally prove
that the sum of any
polygon's exterior
angles will be 360
degrees.



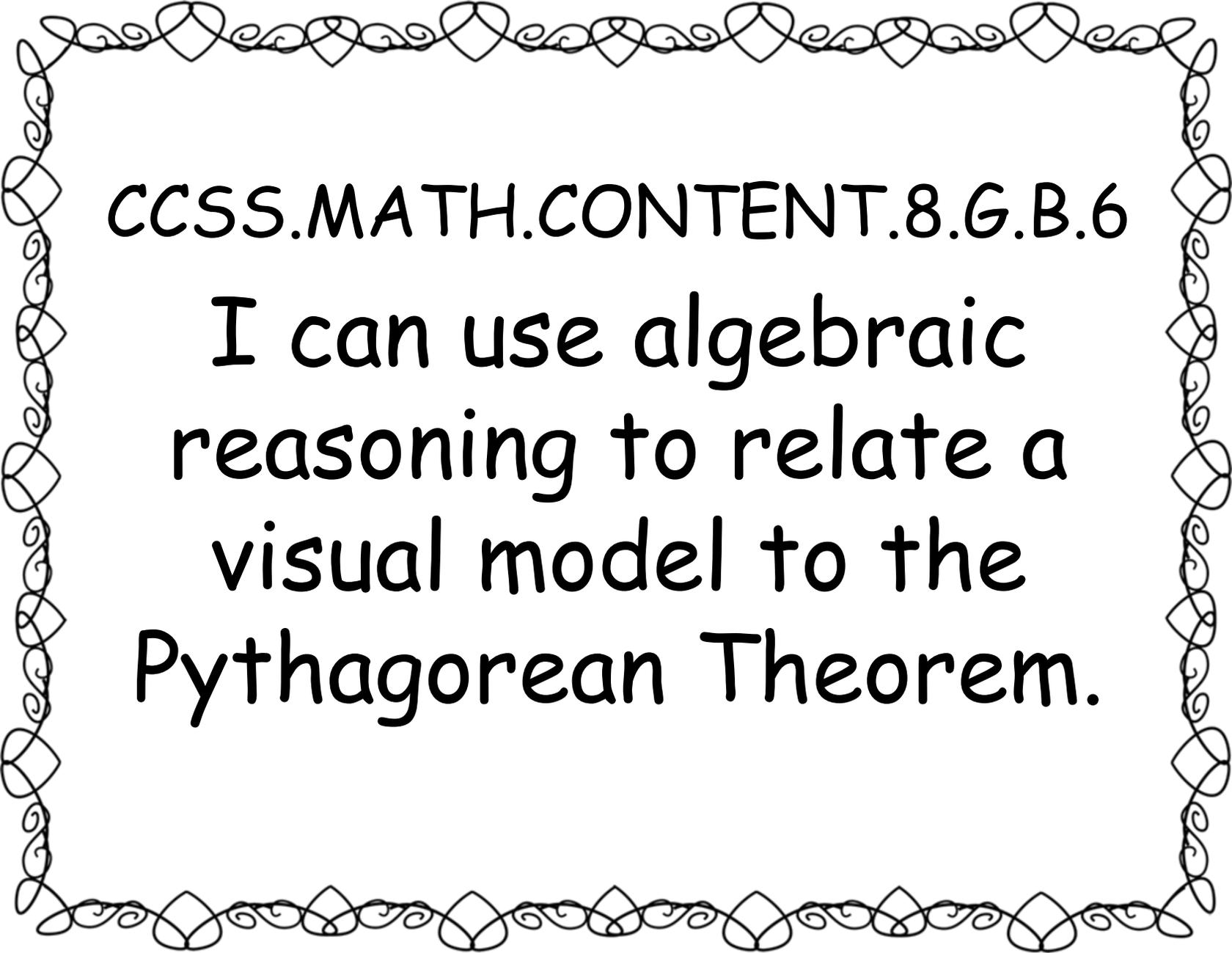
CCSS.MATH.CONTENT.8.G.A.5

I can estimate the relationships and measurements of the angles created when two parallel lines are cut by a transversal.



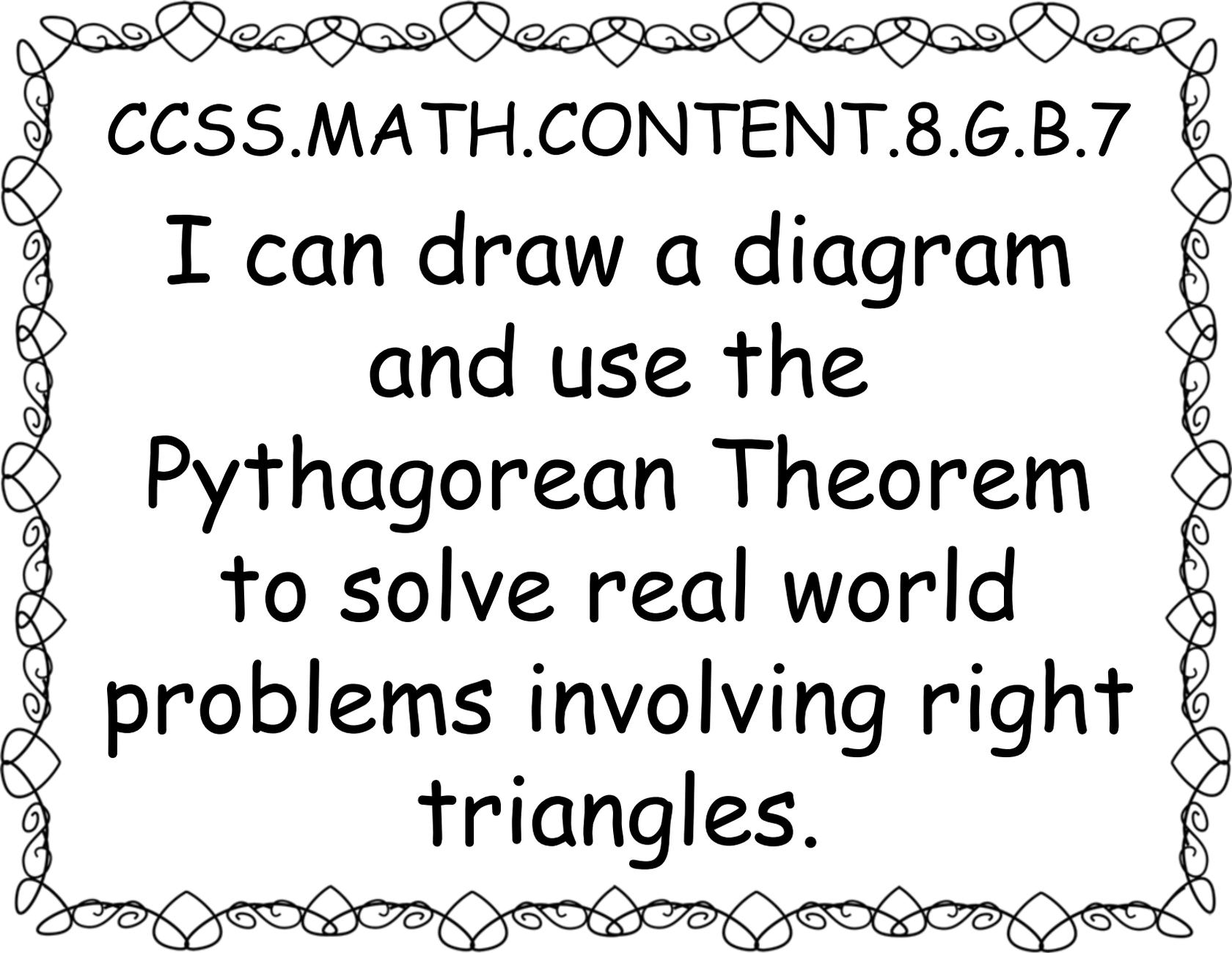
CCSS.MATH.CONTENT.8.G.B.6

I can use the
Pythagorean Theorem
to determine if a given
triangle is a right
triangle.



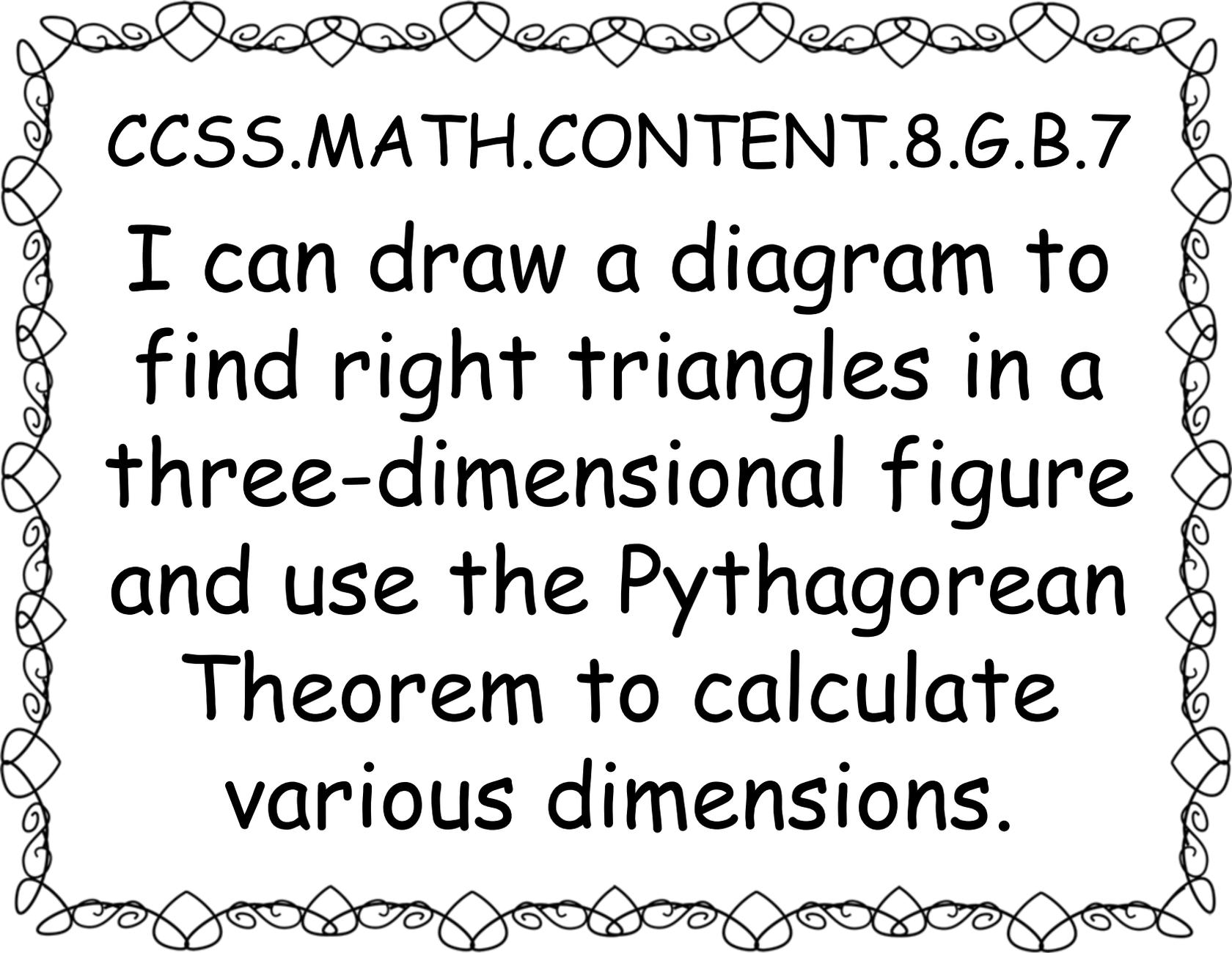
CCSS.MATH.CONTENT.8.G.B.6

I can use algebraic
reasoning to relate a
visual model to the
Pythagorean Theorem.



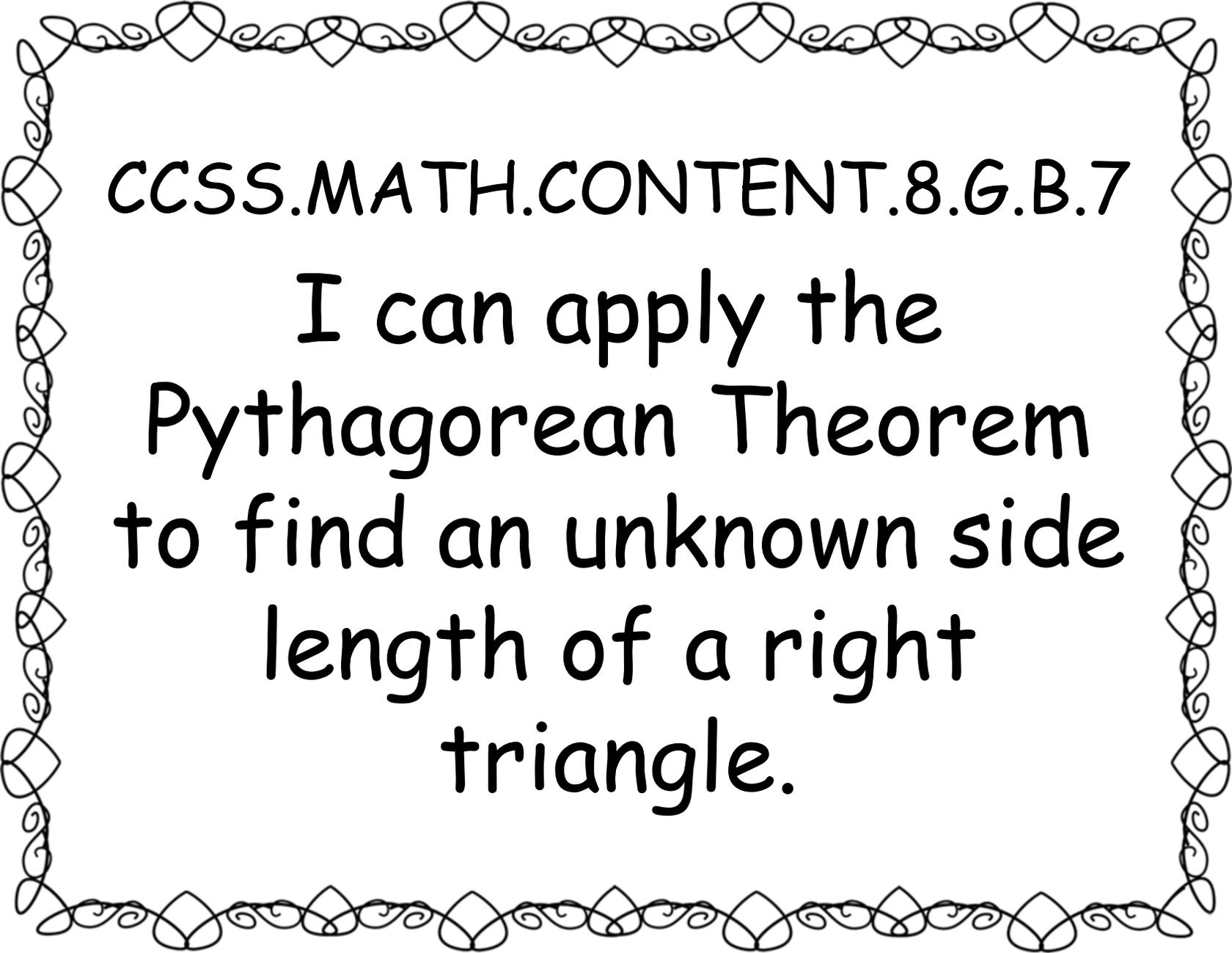
CCSS.MATH.CONTENT.8.G.B.7

I can draw a diagram
and use the
Pythagorean Theorem
to solve real world
problems involving right
triangles.



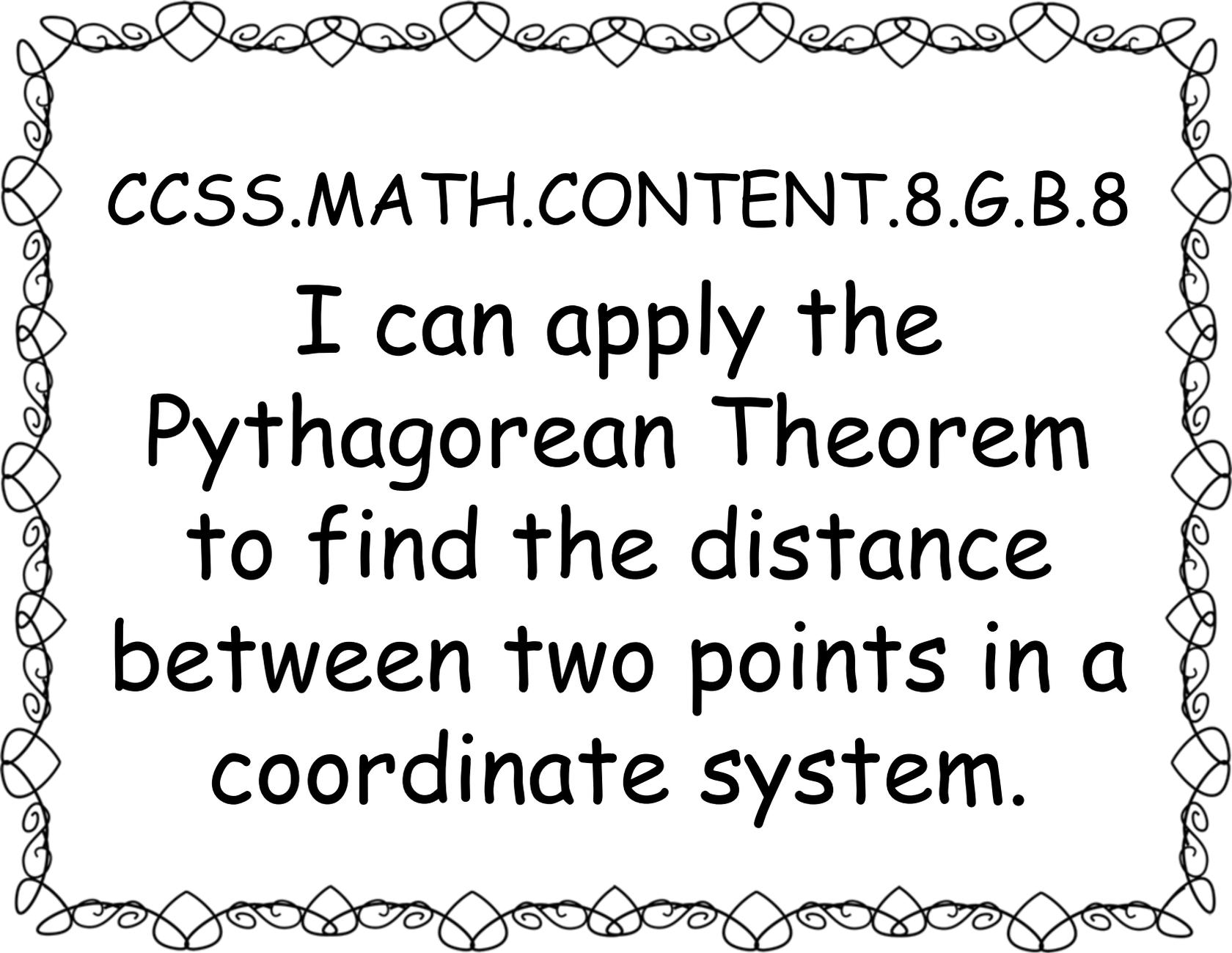
CCSS.MATH.CONTENT.8.G.B.7

I can draw a diagram to find right triangles in a three-dimensional figure and use the Pythagorean Theorem to calculate various dimensions.



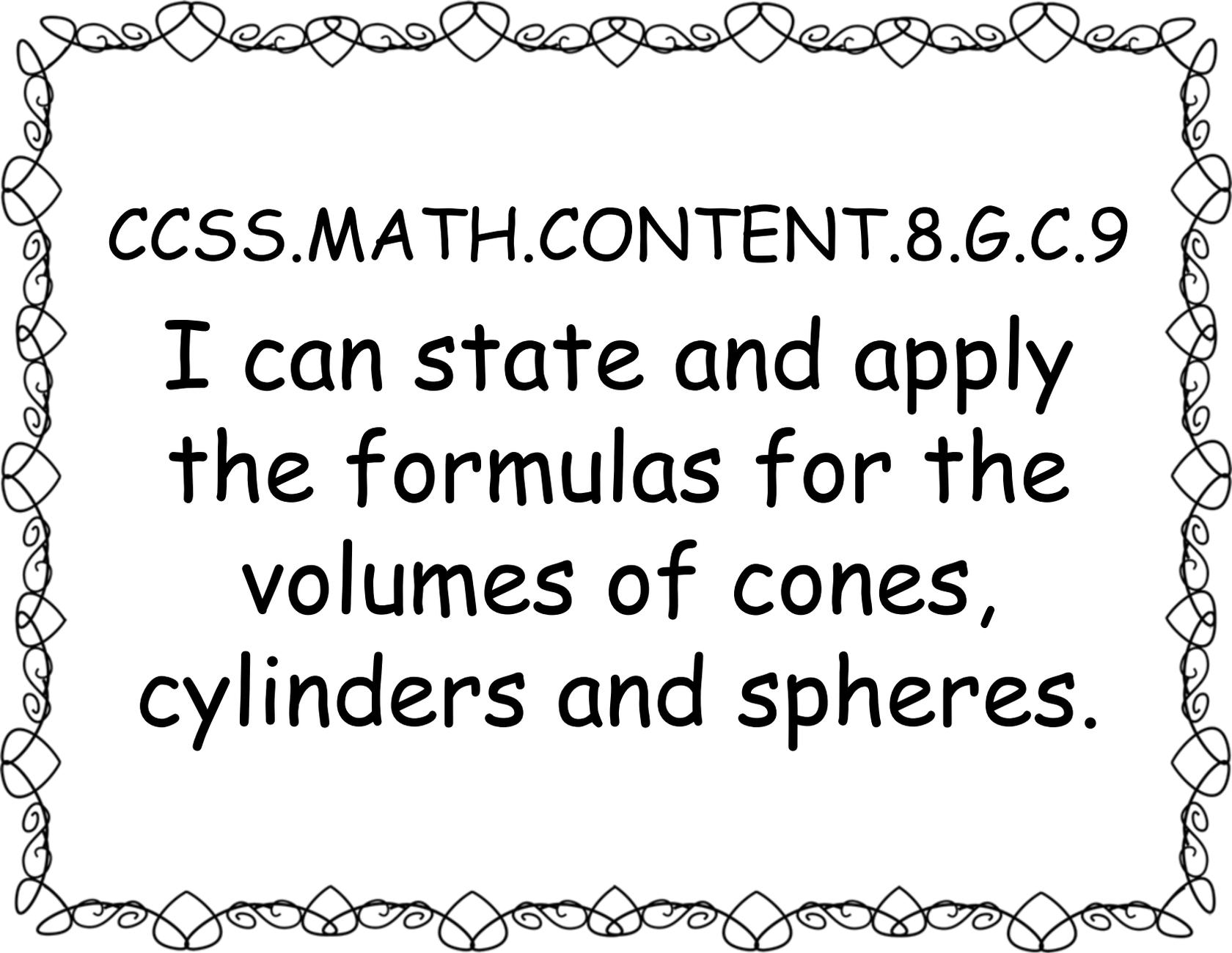
CCSS.MATH.CONTENT.8.G.B.7

I can apply the
Pythagorean Theorem
to find an unknown side
length of a right
triangle.



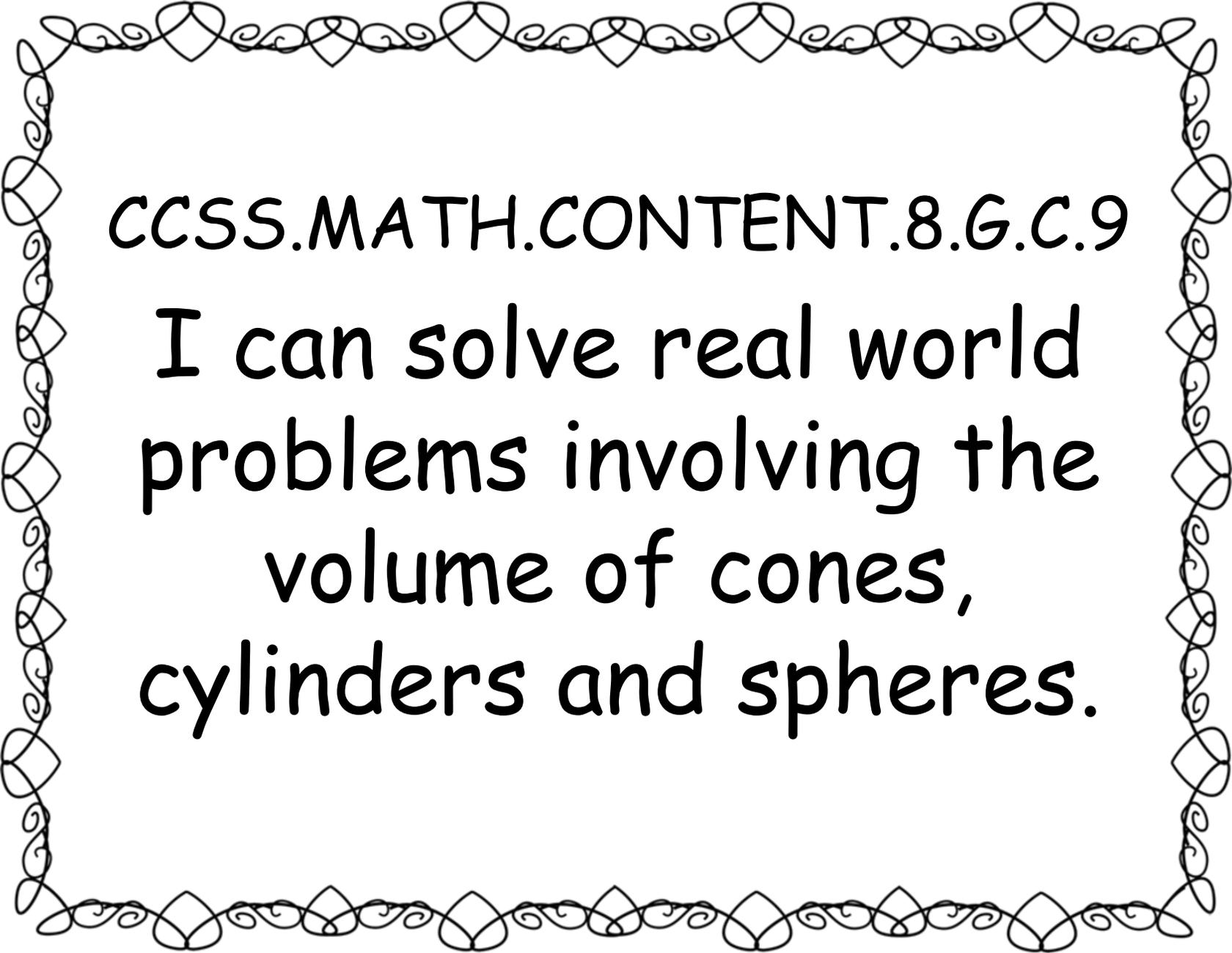
CCSS.MATH.CONTENT.8.G.B.8

I can apply the
Pythagorean Theorem
to find the distance
between two points in a
coordinate system.



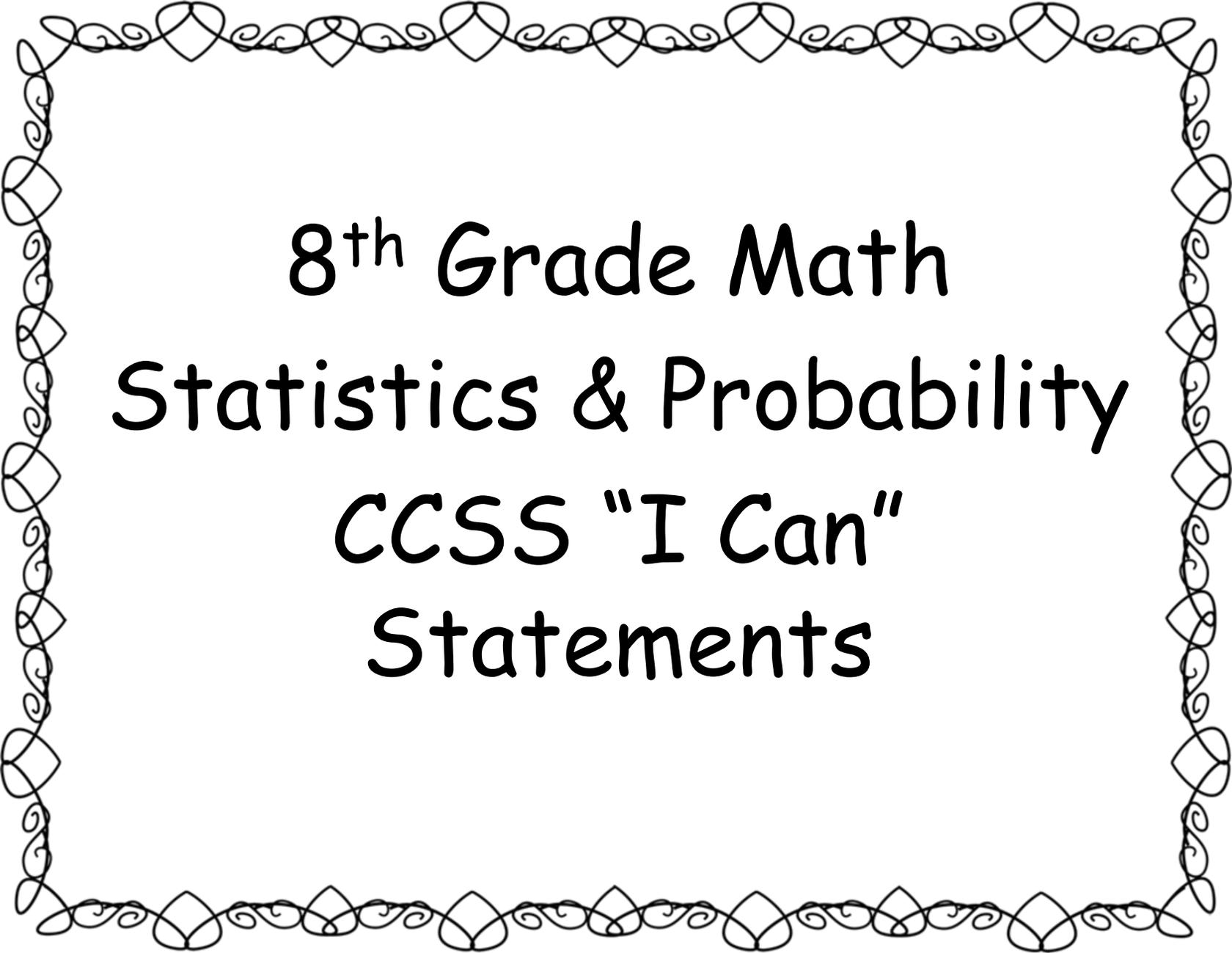
CCSS.MATH.CONTENT.8.G.C.9

I can state and apply
the formulas for the
volumes of cones,
cylinders and spheres.

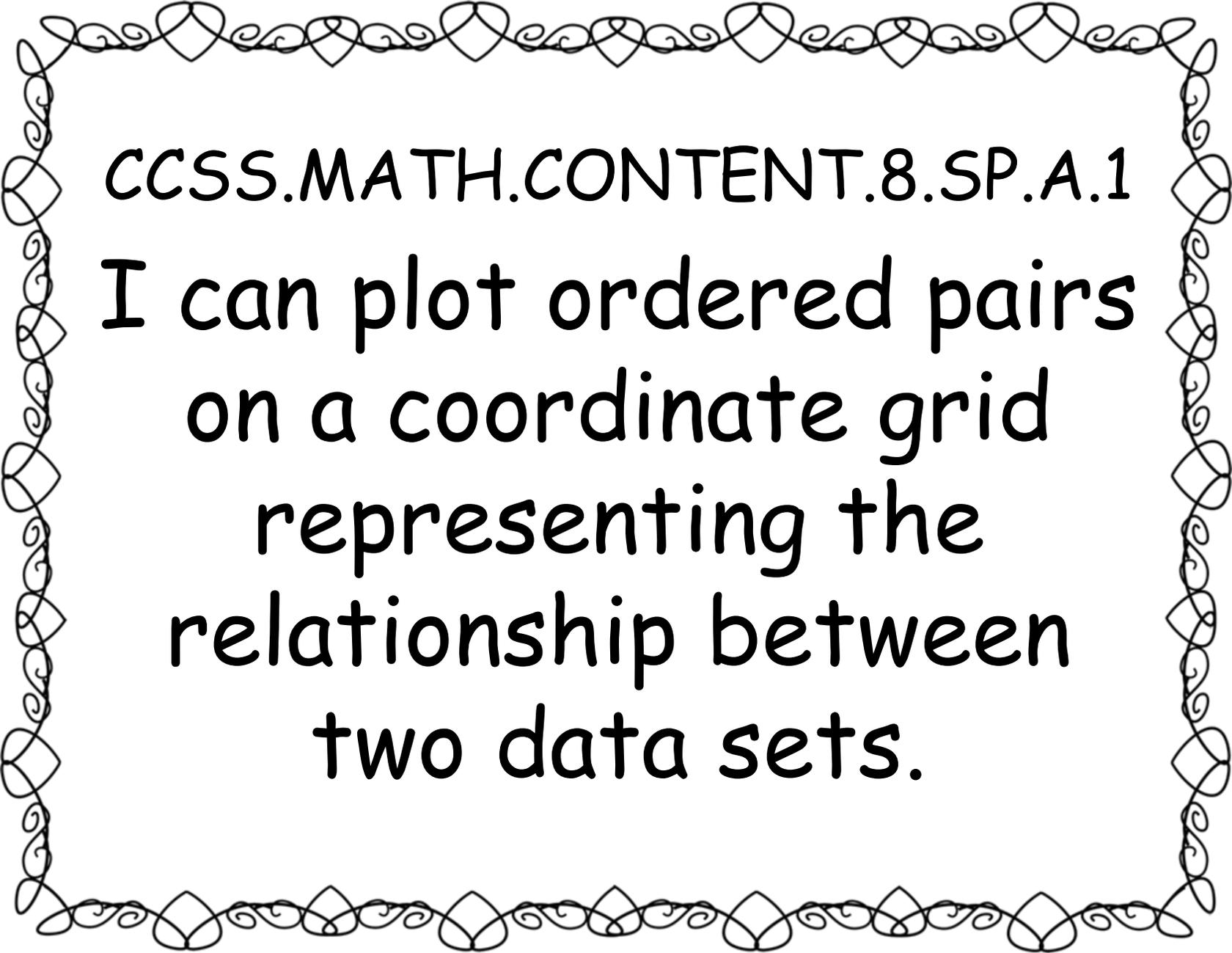


CCSS.MATH.CONTENT.8.G.C.9

I can solve real world
problems involving the
volume of cones,
cylinders and spheres.

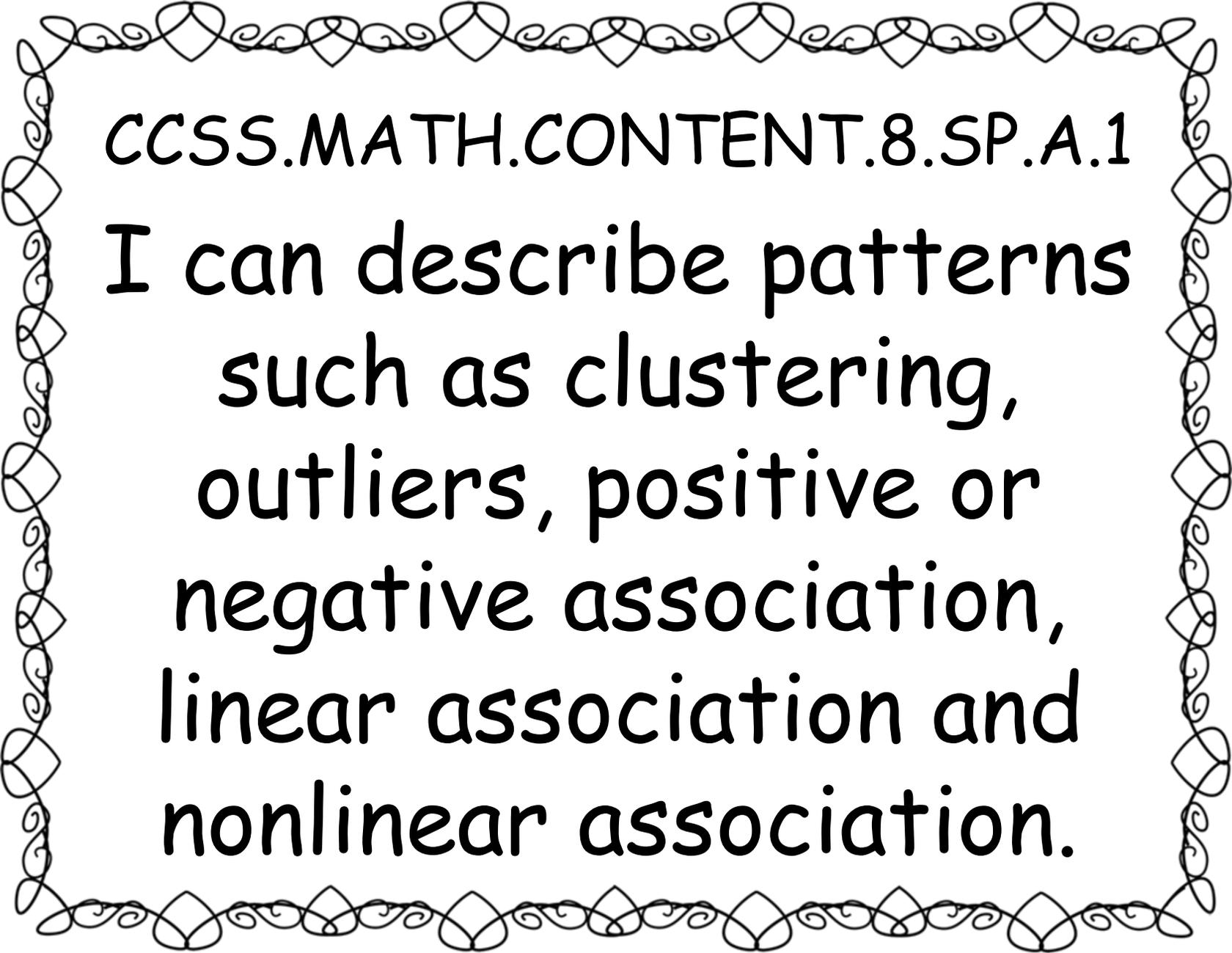


8th Grade Math
Statistics & Probability
CCSS "I Can"
Statements



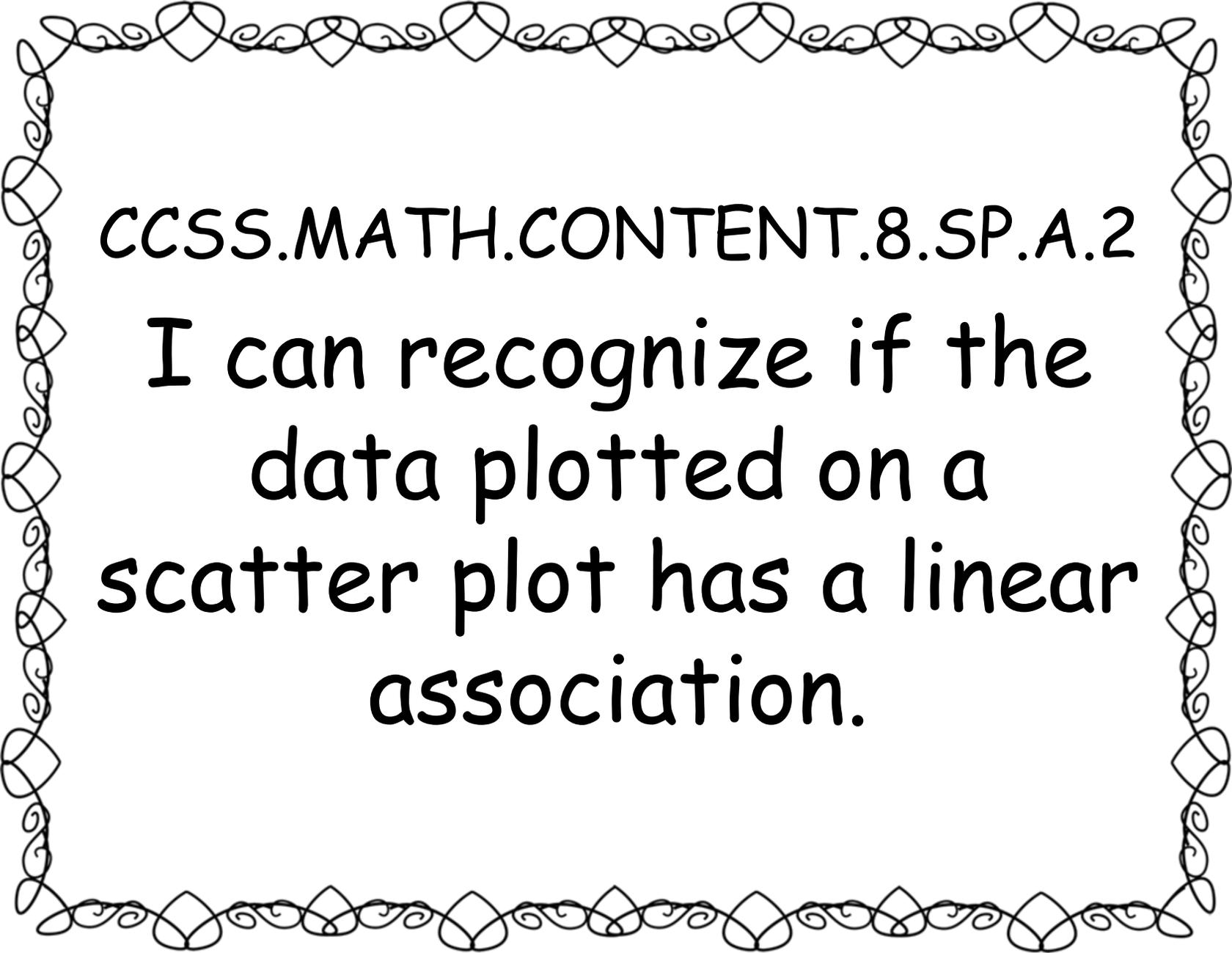
CCSS.MATH.CONTENT.8.SP.A.1

I can plot ordered pairs
on a coordinate grid
representing the
relationship between
two data sets.



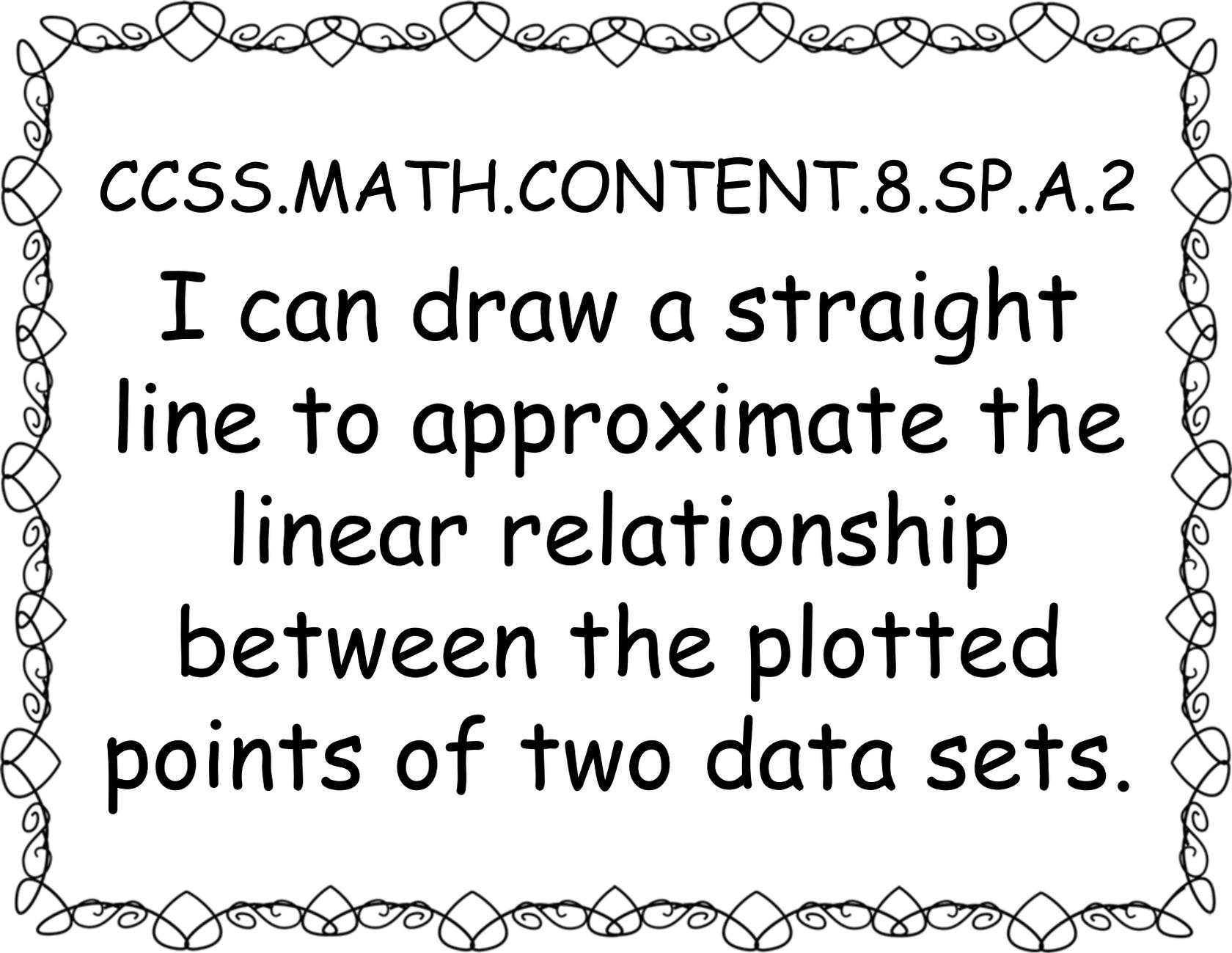
CCSS.MATH.CONTENT.8.SP.A.1

I can describe patterns such as clustering, outliers, positive or negative association, linear association and nonlinear association.



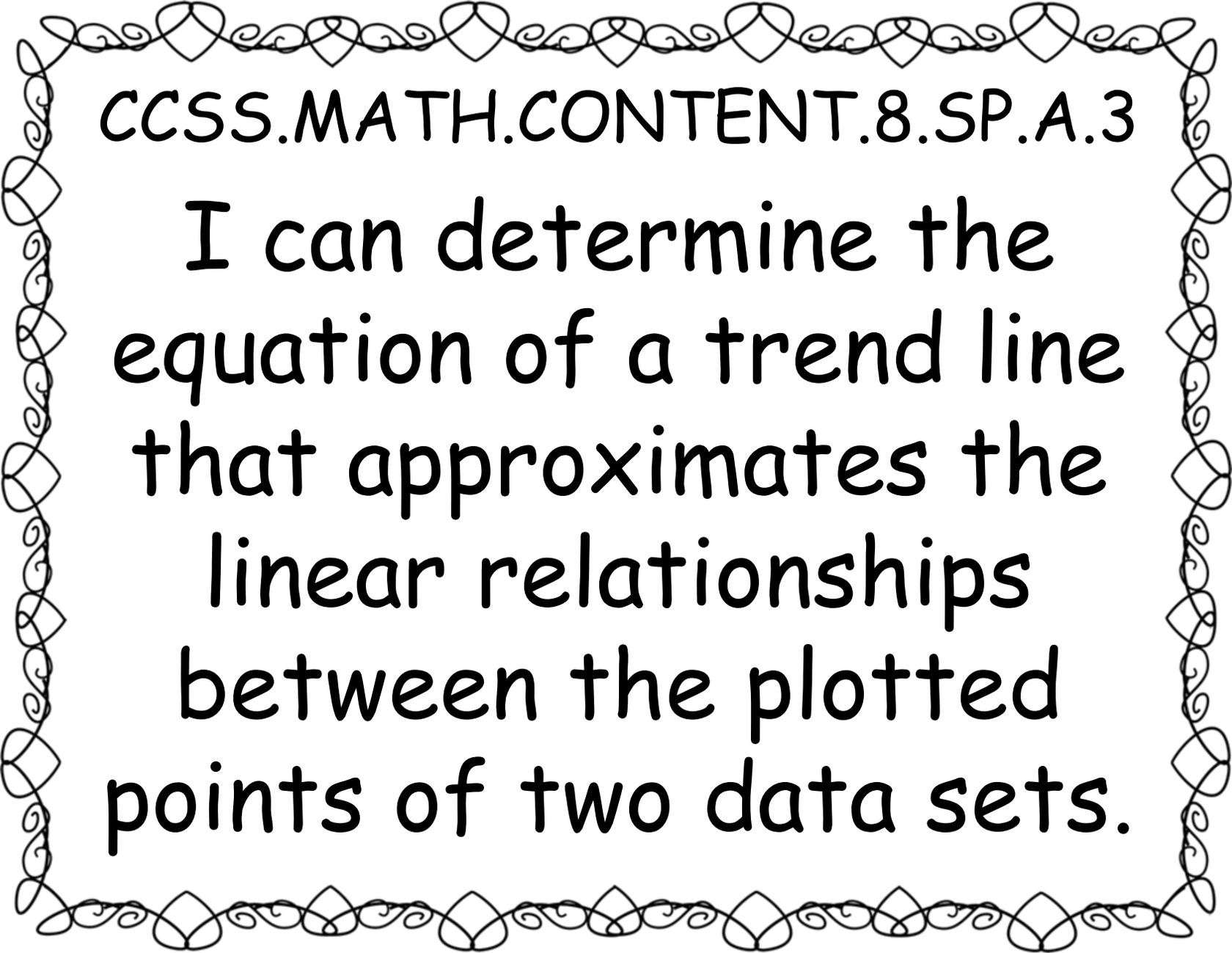
CCSS.MATH.CONTENT.8.SP.A.2

I can recognize if the
data plotted on a
scatter plot has a linear
association.



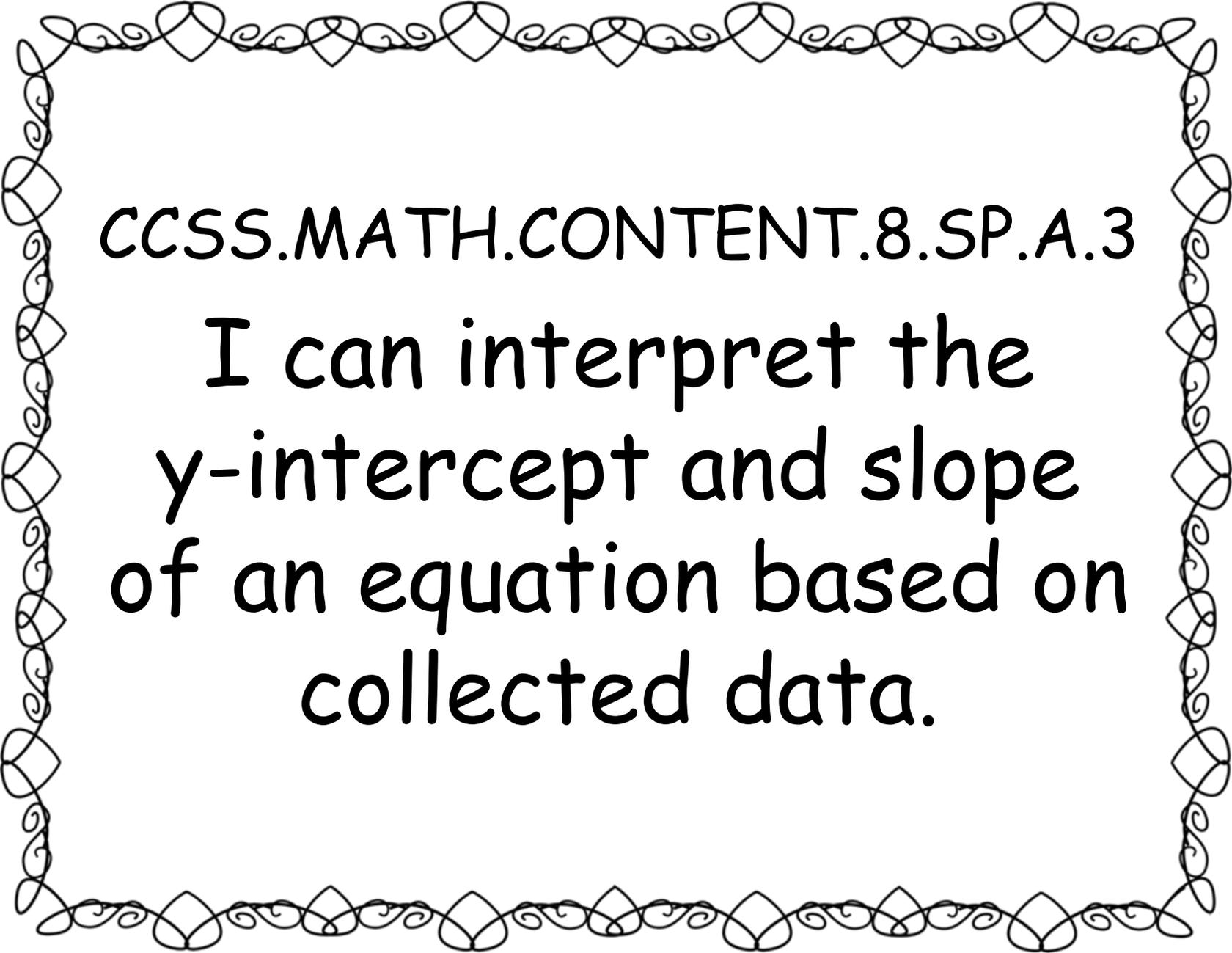
CCSS.MATH.CONTENT.8.SP.A.2

I can draw a straight line to approximate the linear relationship between the plotted points of two data sets.



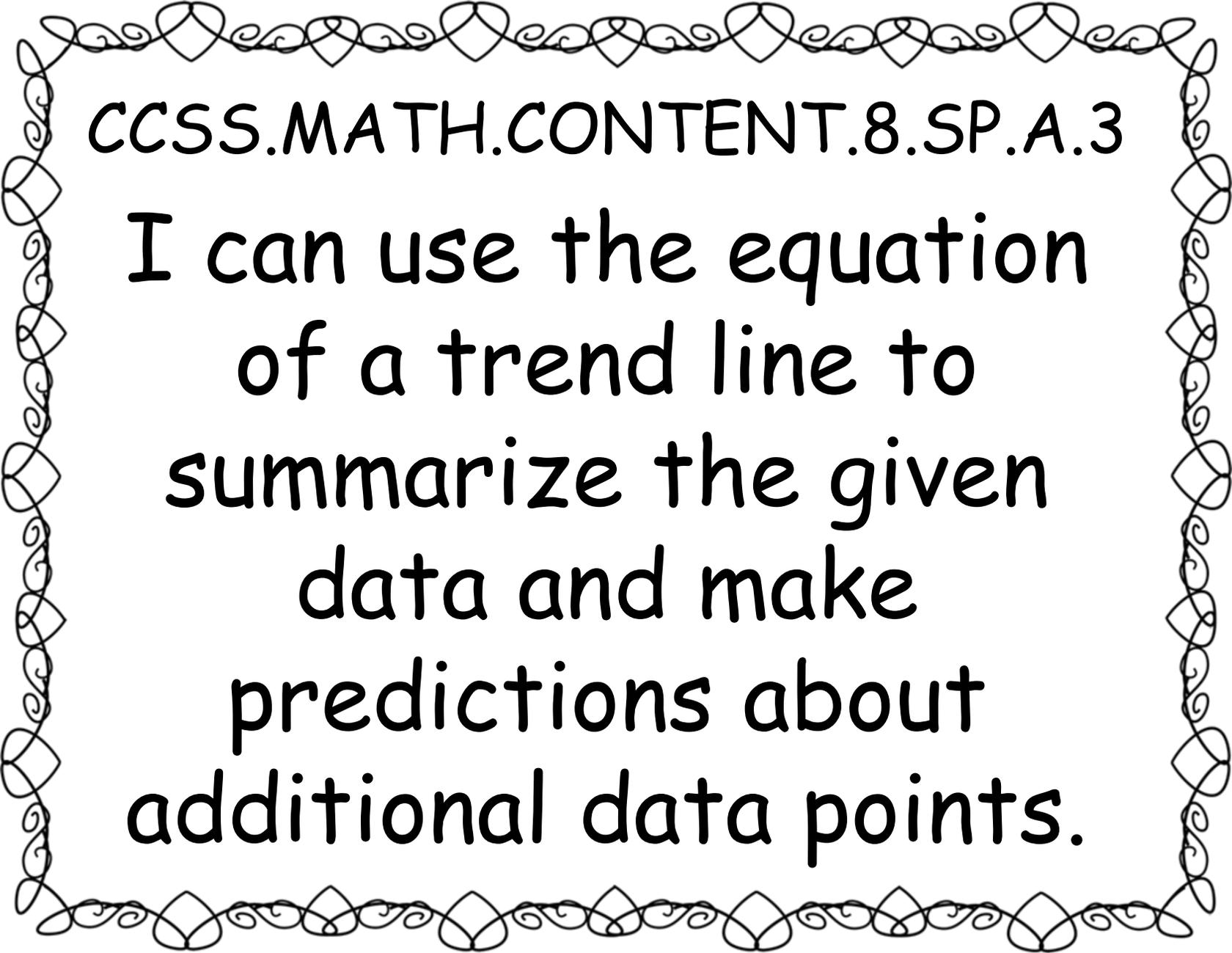
CCSS.MATH.CONTENT.8.SP.A.3

I can determine the equation of a trend line that approximates the linear relationships between the plotted points of two data sets.



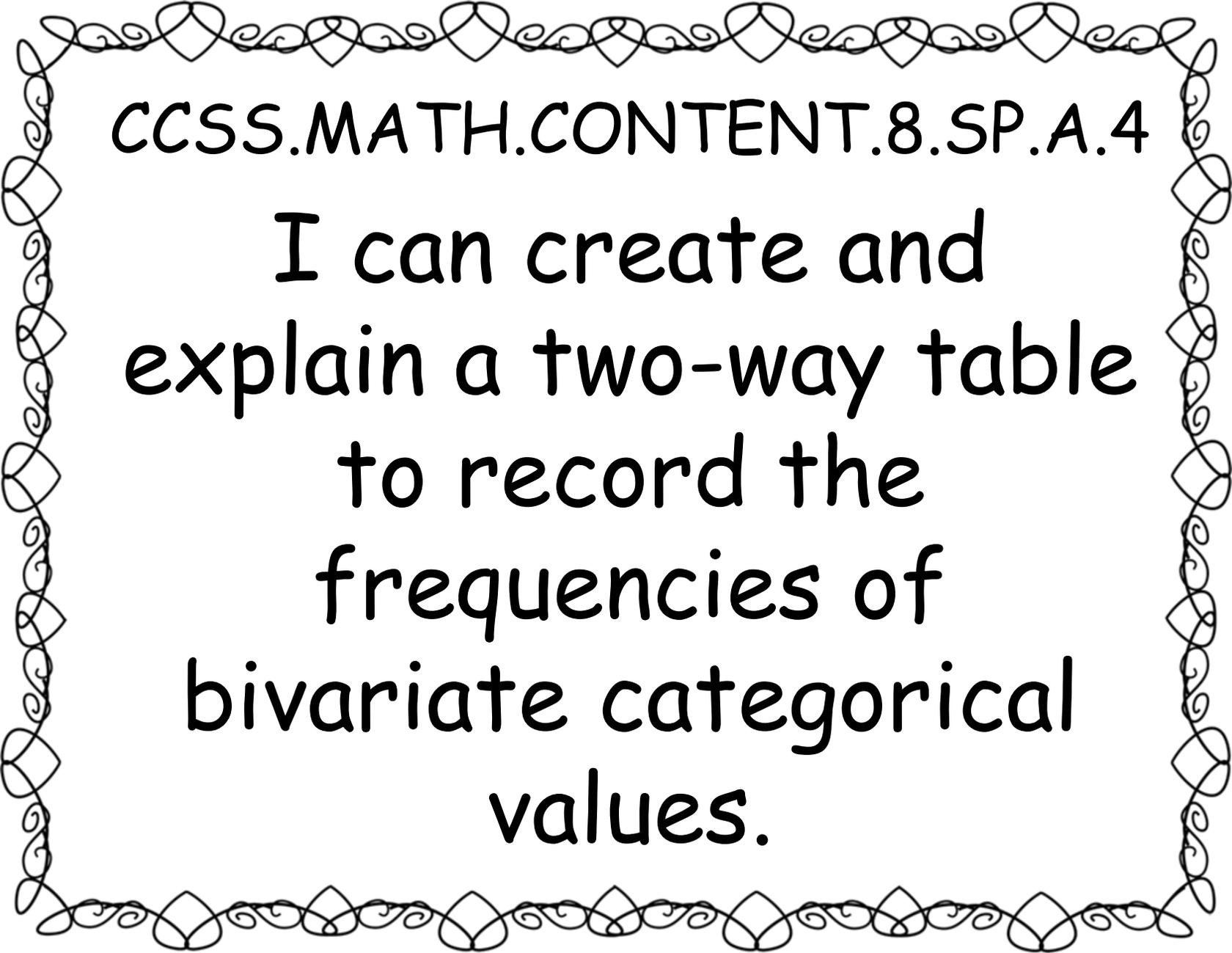
CCSS.MATH.CONTENT.8.SP.A.3

I can interpret the
y-intercept and slope
of an equation based on
collected data.



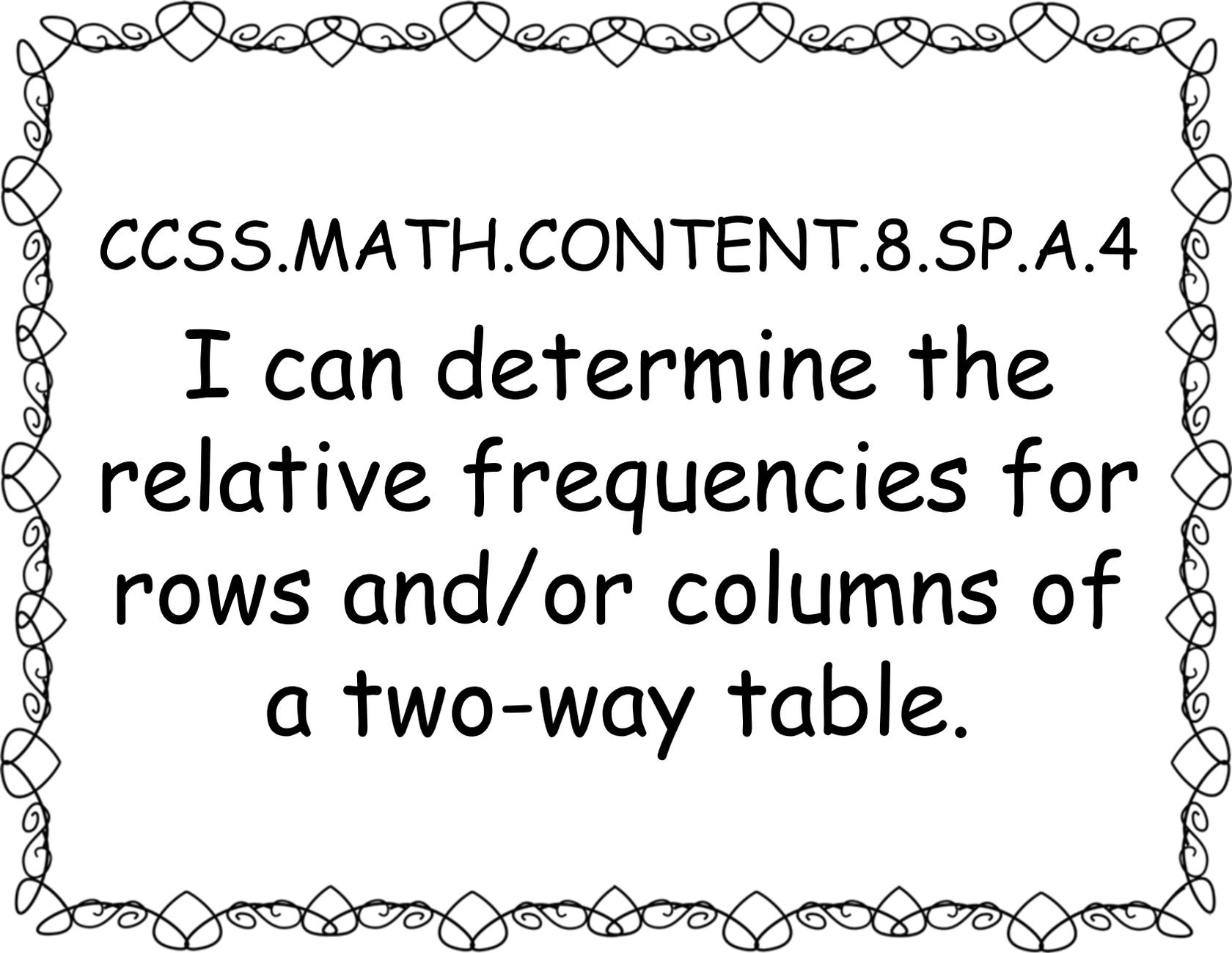
CCSS.MATH.CONTENT.8.SP.A.3

I can use the equation
of a trend line to
summarize the given
data and make
predictions about
additional data points.



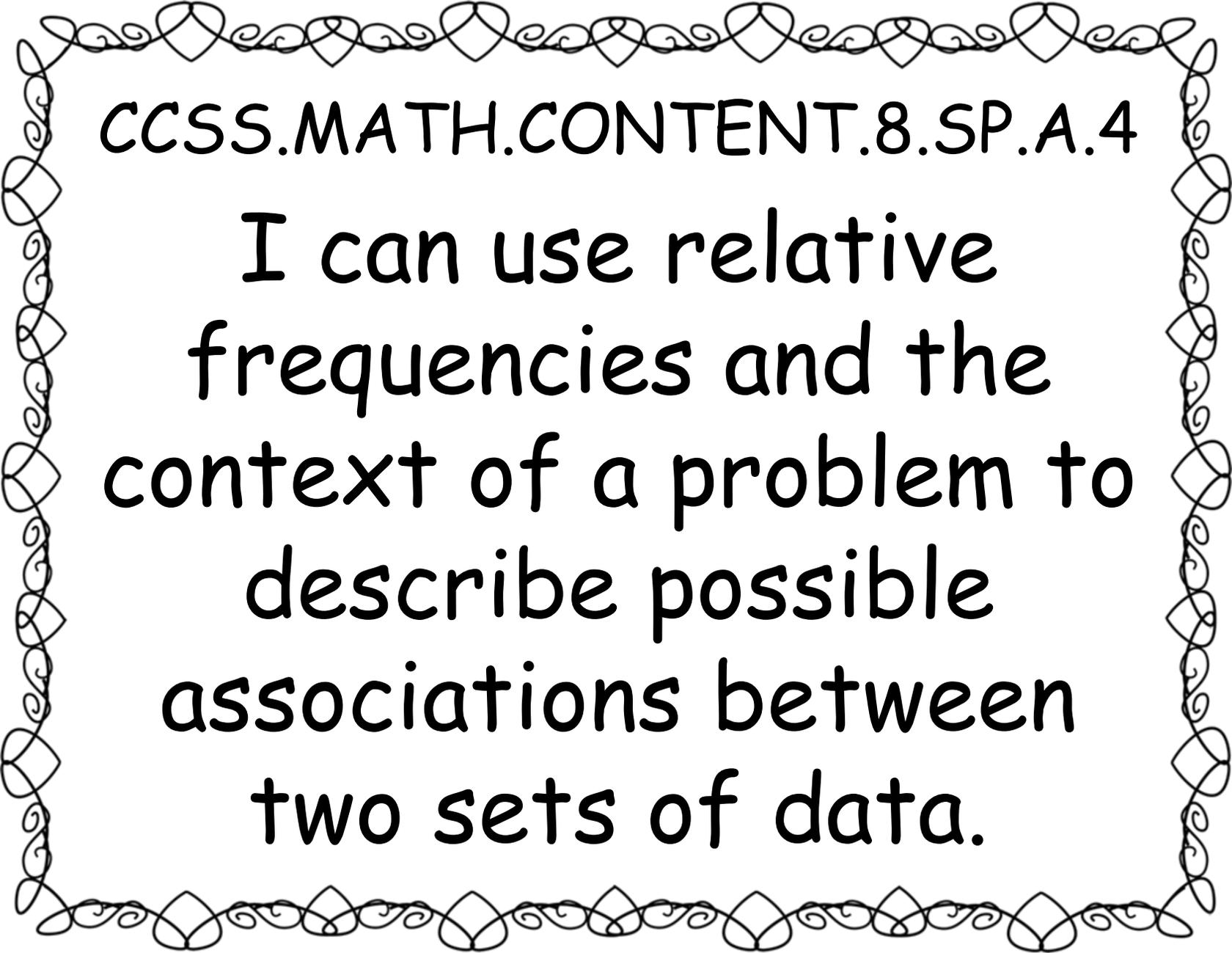
CCSS.MATH.CONTENT.8.SP.A.4

I can create and explain a two-way table to record the frequencies of bivariate categorical values.



CCSS.MATH.CONTENT.8.SP.A.4

I can determine the relative frequencies for rows and/or columns of a two-way table.



CCSS.MATH.CONTENT.8.SP.A.4

I can use relative frequencies and the context of a problem to describe possible associations between two sets of data.