

Math GOALS

Sample Items

Sample: Level A/B, Number Sense

Number Sense

CASAS Math Standard: 1.3.6

Gina is buying a shirt that costs \$10.00. The sales tax is 7.5%.

How much will the tax be?

- A. \$0.07
- B. \$0.13
- C. \$0.75**
- D. \$1.30

Sample: Level C/D, Number Sense

Number Sense

CASAS Math Standard: 1.4.2

Franco is buying nails for a construction project. Each box of nails costs \$14 and contains 225 nails. Franco estimates that he needs 1,800 nails.

How can Franco calculate the total cost of the nails?

A. $\frac{14}{225} = \frac{x}{1800}$

B. $\frac{14}{1800} = \frac{x}{225}$

C. $\frac{1800}{225} = \frac{14}{x}$

D. $\frac{1800}{x} = \frac{14}{225}$

Sample: Level A/B, Algebra

Algebra

CASAS Math Standard: 2.2.8

Jackson Elementary will have 120 first grade students next year. Each class can have 24 students.

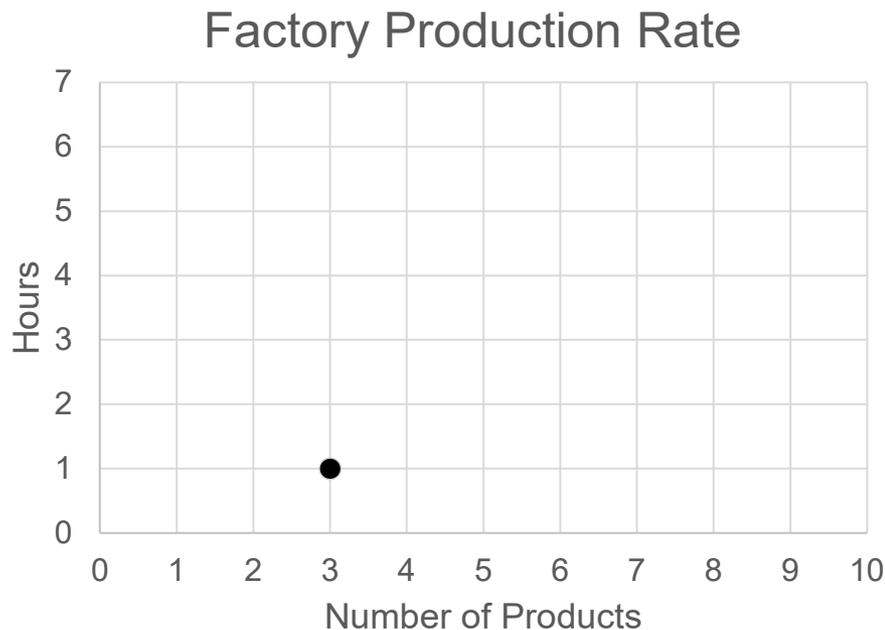
Using the equation $24x = 120$, how many first grade classes will the school need?

- A. 4
- B. 5**
- C. 6
- D. 7

Sample: Level C/D, Algebra

Algebra

CASAS Math Standard: 2.3.10



Equation of a line: $y = mx + b$

m = slope, b = y-intercept

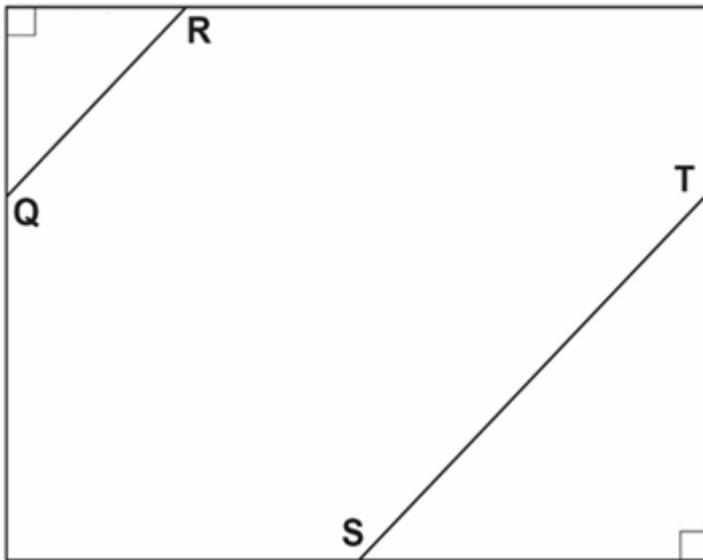
James is going to plot a line using the information in the chart. What is the equation of the line if the slope is $\frac{1}{3}$?

- A. $y = \frac{1}{3}x + 0$
- B. $y = 3x + 1$
- C. $y = \frac{1}{3}x + 1$
- D. $y = 3x + 0$

Sample: Level A/B, Geometry

Geometry

CASAS Math Standard: 3.2.1



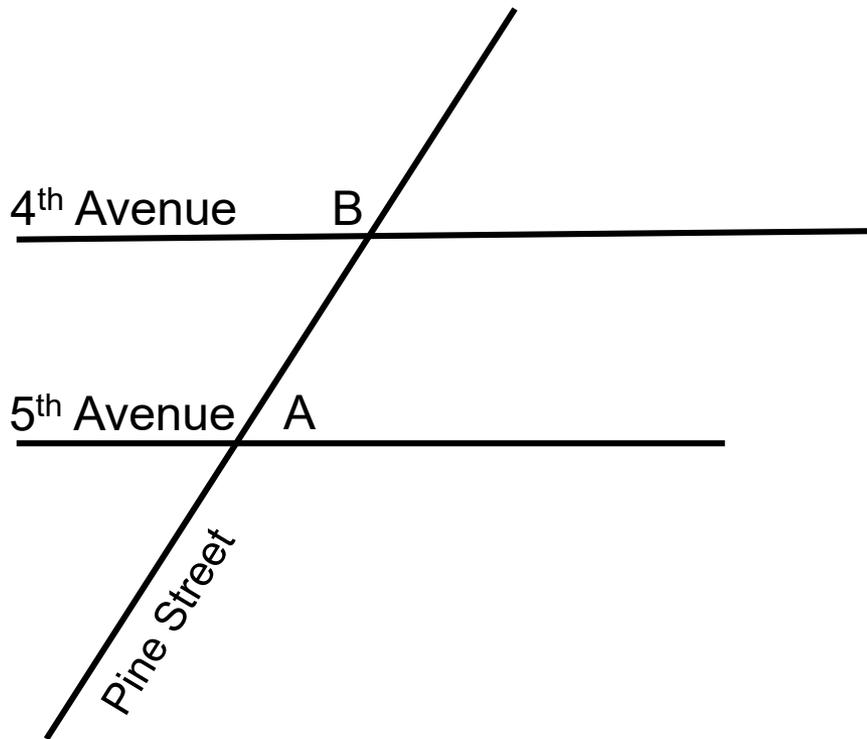
Which best describes *Line QR* and *Line ST*?

- A. They are equal in length.
- B. They are intersecting lines.
- C. They are perpendicular lines.
- D. **They are parallel lines.**

Sample: Level C/D, Geometry

Geometry

CASAS Math Standard: 3.2.3



Angle A, at the intersection of Pine Street and 5th Avenue, is 60 degrees. What is the measure of angle B?

- A. 60 degrees
- B. 90 degrees
- C. 120 degrees**
- D. 180 degrees

Sample: Level A/B, Measurement

Measurement

CASAS Math Standard: 4.2.1

1 foot = 12 inches

A piece of string is 144 inches long. How many feet is the string?

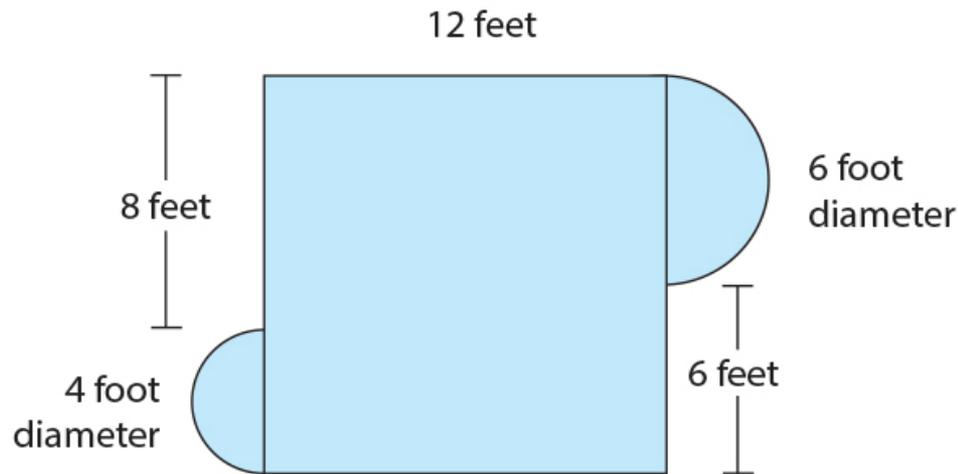
- A. 8 feet
- B. 10 feet
- C. 12 feet**
- D. 14 feet

Sample: Level C/D, Measurement

Measurement

CASAS Math Standard: 4.3.7

Jeremy's Patio



$$(A = \pi r^2; \pi \approx 3.14)$$

What is the approximate area of Jeremy's patio?

- A. 160
- B. 164**
- C. 184
- D. 308

Sample: Level A/B, Statistics and Data

Statistics

CASAS Math Standard: 5.1.1



According to the graph, about how many people ordered from the lunch cart on Tuesday?

- A. 35**
- B. 45
- C. 60
- D. 70

Sample: Level C/D, Statistics and Data

Statistics

CASAS Math Standard: 5.3.3

Celia rides the downtown trolley three times every day.

There are five trolleys that run on the loop downtown.

What is the probability that Celia will ride the #2 trolley on all three trips today?

- A. $3/25$
- B. $1/15$
- C. $3/5$
- D. $1/125$**