

GLENCOE MATH

Course 3

Think Smart for the Smarter Balanced Assessment

- Smarter Balanced Assessment Item Types
- Countdown to SBAC
- Chapter Tests in SBAC Format
- Chapter Performance Tasks, Rubrics, and Student Work Samples
- Benchmark Tests with Performance Tasks

Go online for more!

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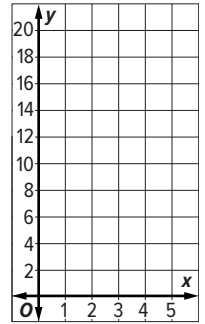
- Question Analysis Charts
- Student Scoring Rubrics
- Technology-Enhanced Questions
- More Performance Tasks!

Countdown: 10 Weeks

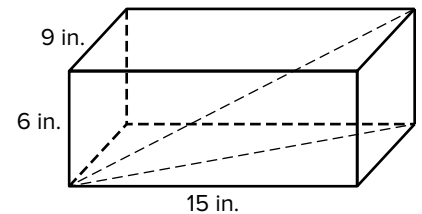
1. The path of a kicked ball can be modeled by the equation $y = 2x^2$. 8.F.3

Part A: Graph points for values of x from 0 to 3.

Part B: Is the function a linear function? Justify your answer in two ways.



2. A pet spider is kept in a shoe box and sleeps in the bottom front left corner. She strings a web from her sleeping corner and moves along it to the top back right corner. To return to her sleeping corner, she walks down the edge of the box and across the bottom to the front left corner. How much farther did she walk on her return walk? Round to the nearest tenth of an inch. 8.G.7



3. The diameter of Earth is 7,918 miles. A superhero can travel at the speed of light, 1.86×10^5 miles per second. Approximately how many times can the superhero circle the Earth at the equator in 1 second? Round to the nearest tenth. Justify your answer. 8.EE.3, 8.EE.4

4. Zeke and Nelly are working on a lab for their physical science class. They measure how far a car rolled after it left a ramp. Zeke measures 25 inches. Nelly says they can record $0.58\overline{3}$ yards. Is Nelly correct? Explain why or why not. 8.NS.1

5. Three families track their distance while traveling to the band competition. Each family recorded the data in a different form. Write the appropriate label to order the families by speed from fastest to slowest. 8.F.4

- 1: Fastest

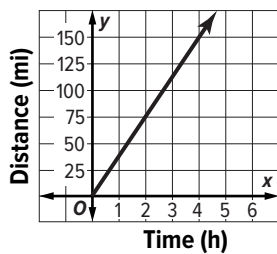
2: Middle speed

3: Slowest

Rodriguez family

Time (h)	Distance (mi)
0.75	45
2.5	150
3	180

Martin family



Think Smart for SBAC

On the actual test, you might be asked to drag the expressions into the appropriate box. In this book, you will be asked to write the expressions instead.

Brown family

$y = 56x$, where x is number of hours and y is distance in miles

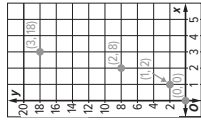
NAME _____ DATE _____ PERIOD _____ SCORE _____

Countdown: 10 Weeks

1. The path of a kicked ball can be modeled by the equation $y = 2x^2$. 8.F.3

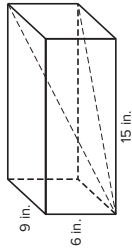
Part A: Graph points for values of x from 0 to 3.

Part B: Is the function a linear function? Justify your answer in two ways.



The function is not linear. Sample answer: The equation is not in the form $y = mx + b$ because x is squared. The points do not lie on a straight line.

2. A pet spider is kept in a shoe box and sleeps in the bottom front left corner. She strings a web from her sleeping corner and moves along it to the top back right corner. To return to her sleeping corner, she walks down the edge of the box and across the bottom to the front left corner. How much farther did she walk on her return walk? Round to the nearest tenth of an inch. 8.G.7



5.0 in.

3. The diameter of Earth is 7,918 miles. A superhero can travel at the speed of light, 1.86×10^8 miles per second. Approximately how many times can the superhero circle the Earth at the equator in 1 second? Round to the nearest tenth. Justify your answer. 8.EE.3, 8.EE.4

7.5 times; Sample answer: The circumference of Earth is $7,918(3.14) \approx 24,862.52$ miles. In 1 second, the superhero travels 1.86×10^8 miles. Divide $(1.86 \times 10^8) \div 24,862.52 \approx 7.5$.

Countdown: 10 Weeks

4. Zeke and Nelly are working on a lab for their physical science class. They measure how far a car rolled after it left a ramp. Zeke measures 25 inches. Nelly says they can record 0.583 yards. Is Nelly correct? Explain why or why not. 8.NS.1

No, Nelly is not correct; $25 \text{ in.} = \frac{25}{36} \text{ yd}$ and $\frac{25}{36} \approx 0.694$.

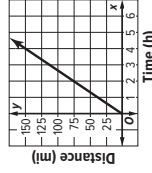
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1: Fastest

Martin family



3: Slowest

Brown family

2: Middle speed

$y = 56x$, where x is number of hours and y is distance in miles

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