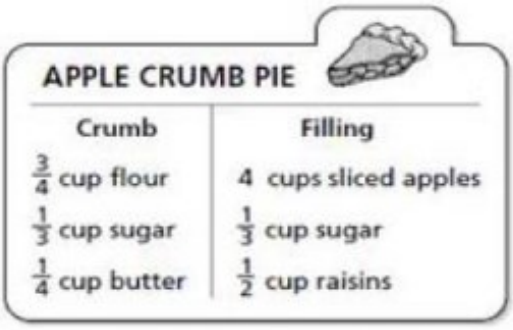
# Common Core Math Test

## NY State Test Item 5th Grade Math (2005)

**12** Pierre is making an apple crumb pie using the items below.



**APPLE CRUMB PIE**

| Crumb | Filling |
|---|---|
| $\frac{3}{4}$ cup flour | 4 cups sliced apples |
| $\frac{1}{3}$ cup sugar | $\frac{1}{3}$ cup sugar |
| $\frac{1}{4}$ cup butter | $\frac{1}{2}$ cup raisins |

How much total sugar must Pierre use to make the pie crumb and filling?

F $\frac{7}{12}$ cup

G $\frac{2}{6}$ cup

H $\frac{3}{4}$ cup

J $\frac{2}{3}$ cup

## Example Common Core Performance Task 5th Grade Math

### Stuffed with Pizza

Tito and Luis are stuffed with pizza! Tito ate one-fourth of a cheese pizza. Tito ate three-eighths of a pepperoni pizza. Tito ate one-half of a mushroom pizza. Luis ate five-eighths of a cheese pizza. Luis ate the other half of the mushroom pizza. All the pizzas were the same size. Tito says he ate more pizza than Luis because Luis did not eat any pepperoni pizza. Luis says they each ate the same amount of pizza. Who is correct? Show all your mathematical thinking.

3rd Grade

What is another way of expressing $8 \times 12$?

**A** $(8 \times 10) + (8 \times 2)$

**B** $(8 \times 1) + (8 \times 2)$

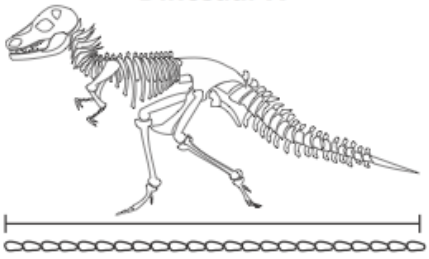
**C** $(8 \times 10) + 2$

**D** $8 + (10 \times 2)$

4th Grade

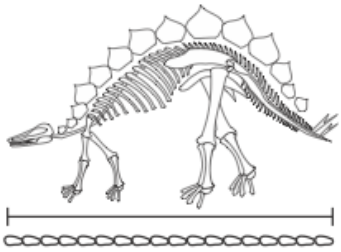
Bradley saw 3 dinosaur skeletons at the museum. To measure the length of each skeleton, he counted the number of his shoe lengths from the head to the tail, as shown in the picture below.

**Dinosaur X**



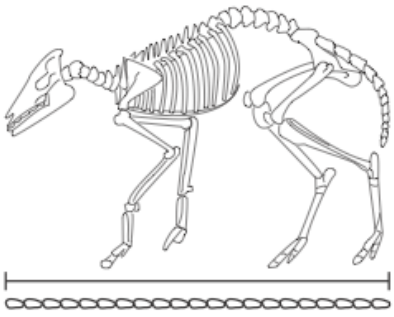
23 Steps

**Dinosaur Y**



18 Steps

**Dinosaur Z**



21 Steps

| KEY |
| --- |
| ⬭ = 1 shoe length |

Bradley's shoe length is 17 cm long. Which list shows the dinosaur skeletons that were more than 320 centimeters long?

**A** Dinosaur X and Dinosaur Y

**B** Dinosaur X and Dinosaur Z

**C** Dinosaur Y and Dinosaur Z

**D** Dinosaur X, Dinosaur Y, and Dinosaur Z

5th Grade

Mr. Morris built a fence to enclose his yard. He put up $\frac{3}{4}$ of the fence on Monday. On Tuesday, he put up $\frac{1}{6}$ of the fence, and on Wednesday, he put up the rest of the fence. What portion of the fence did he put up on Wednesday?

**A** $\frac{11}{12}$

**B** $\frac{3}{5}$

**C** $\frac{2}{5}$

**D** $\frac{1}{12}$

6th Grade

The table below shows the number of tea bags needed to make different amounts of iced tea.

| Number of Tea Bags | Total Quarts of Iced Tea |
|---|---|
| 8 | 2 |
| 16 | 4 |
| 24 | ? |
| 36 | 9 |

What is the total number of quarts of iced tea that can be made with 24 tea bags?

**A** 5

**B** 6

**C** 7

**D** 8

7th Grade

Cassie rolls a fair number cube with 6 faces labeled 1 through 6. She rolls the number cube 300 times. Which result is **most** likely?

**A** Cassie will roll a 1 or a 2 about 50 times.

**B** Cassie will roll a 1 or a 2 exactly 50 times.

**C** Cassie will roll an even number about 150 times.

**D** Cassie will roll an even number exactly 150 times.

8th Grade

Mr. Wallace surveyed 75 students at Poole Middle School to find out the students' favorite place to eat lunch. The results are shown below.

**FAVORITE PLACE TO EAT LUNCH**

| | Cafeteria | Outside | Total |
|---|---|---|---|
| Boys | 16 | 21 | 37 |
| Girls | 24 | 14 | 38 |
| Total | 40 | 35 | 75 |

Which table shows the approximate relative frequencies of Mr. Wallace's data?

A

**FAVORITE PLACE TO EAT LUNCH**

| | Cafeteria | Outside | Total |
|---|---|---|---|
| Boys | 16% | 21% | 37% |
| Girls | 24% | 14% | 38% |
| Total | 40% | 35% | 75% |

C

**FAVORITE PLACE TO EAT LUNCH**

| | Cafeteria | Outside | Total |
|---|---|---|---|
| Boys | 40% | 60% | 49% |
| Girls | 60% | 40% | 51% |
| Total | 100% | 100% | 100% |

B

**FAVORITE PLACE TO EAT LUNCH**

| | Cafeteria | Outside | Total |
|---|---|---|---|
| Boys | 21% | 28% | 49% |
| Girls | 32% | 19% | 51% |
| Total | 53% | 47% | 100% |

D

**FAVORITE PLACE TO EAT LUNCH**

| | Cafeteria | Outside | Total |
|---|---|---|---|
| Boys | 43% | 57% | 100% |
| Girls | 63% | 37% | 100% |
| Total | 53% | 47% | 100% |

9th Grade

The length of the shortest side of a right triangle is 8 inches. The lengths of the other two sides are represented by consecutive odd integers. Which equation could be used to find the lengths of the other sides of the triangle?

(1) $8^2 + (x+1) = x^2$
(2) $x^2 + 8^2 = (x+1)^2$
(3) $8^2 + (x+2)^2 = x^2$
(4) $x^2 + 8^2 = (x+2)^2$