

Name:

Date:

- 1: The ratio of girls to boys in Mr. Hansen's class is 4:5. The ratio of girls to boys in Ms. Luna's class is 8:10. Which equation correctly compares these ratios?

A $\frac{4}{5} = \frac{10}{8}$

B $\frac{4}{5} = \frac{8}{10}$

C $\frac{4}{10} = \frac{8}{5}$

D $\frac{4}{10} = \frac{5}{8}$

Answer:

B

Point Value:

1

- 2: Which proportion is correct?

A $\frac{4}{10} = \frac{3}{6}$

B $\frac{1}{2} = \frac{7}{8}$

C $\frac{1}{2} = \frac{3}{6}$

D $\frac{4}{10} = \frac{7}{8}$

Answer:

C

Point Value:

1

- 3: Ernie has 4 yellow straws, 3 green straws, and 1 blue straw in a kitchen drawer. Each straw is the same size and shape. Ernie pulls out one straw from the drawer without looking. What is the probability of Ernie pulling out a green straw?

A $\frac{1}{8}$

B $\frac{3}{8}$

C $\frac{5}{8}$

D $\frac{7}{8}$

Answer:

B

Point Value:

1

- 4: The ratio of the number of bananas to the number of apples at a fruit stand is 3:5. Moe says that the ratio is equivalent to 12:25. In the space below, use words, numbers, or symbols to show why Moe's statement is incorrect.

Be sure to provide a ratio equivalent to 3:5 in your answer.

Point Value:

2

- 5: The ratio of the number of gallons of milk to the number of boxes of cereal in Julie's grocery cart is 2:3. Which ratio is equivalent to 2:3?

A $\frac{2}{3}$

B 23%

C 3:2

D 3 out of 2

Answer:

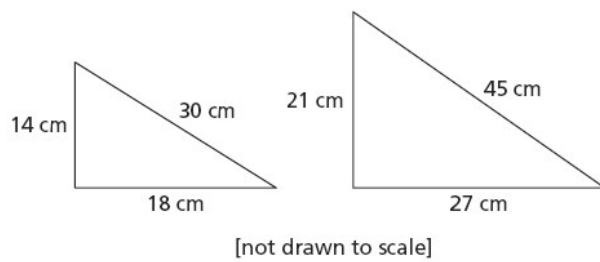
A

Point Value:

1

6: Standard(s): [M5.C.1.1.2](#)

The triangles below are similar.



Which fraction represents the ratio of the corresponding sides of the triangles?

- A $\frac{14}{21}$
- B $\frac{14}{27}$
- C $\frac{14}{30}$
- D $\frac{14}{45}$

Answer:

A

Point Value:

1

7: Standard(s): [M5.A.1.3.3](#), [M5.A.1.5](#)

In Marta's class, the ratio of students who ate tacos for lunch to the students who ate burritos was 12:18. Which fraction is an equivalent form of this ratio?

- F $\frac{2}{8}$
- G $\frac{4}{9}$
- H $\frac{2}{3}$
- J $\frac{3}{4}$

Answer:

H

Point Value:

1

- 8: At a school carnival, a group of 47 students played the Fish Pond game. Each student in the group won a prize. A stuffed animal was won by 24 students, a rubber ball was won by 7 students, and the rest of the students won a baseball cap. What fraction of the group won a baseball cap?

- A $\frac{7}{47}$
B $\frac{16}{47}$
C $\frac{24}{47}$
D $\frac{31}{47}$

Answer:

B

Point Value:

1

- 9: Jeremy has a box with a rectangular lid. The top of the lid has an area of 392 square centimeters. The ratio of the width to the length of the lid is 1:8. What are the dimensions of the lid?

- A 4 cm by 98 cm
B 7 cm by 56 cm
C 8 cm by 49 cm
D 8 cm by 64 cm

Answer:

B

Point Value:

1

Directions:

Answer all 30 questions in this part. Each correct answer will receive 2 credits. No partial credit will be allowed. For each question, the numeral preceding the word or expression that best completes the statement or answers the question.

Scoring Guide:

Allow a total of 60 credits, 2 credits for each correct response. Allow credit if the student has written the correct answer instead of the numeral 1, 2, 3, or 4.

- 10: A bag contains eight green marbles, five white marbles, and two red marbles. What is the probability of drawing a red marble from the bag?
- (1) $\frac{1}{15}$
(2) $\frac{2}{15}$
(3) $\frac{2}{13}$
(4) $\frac{13}{15}$

Answer:

2

Point Value:

2