

WINTER BRAIN BUILDER MATH BOOT CAMP

6TH GRADE

6.RP.1.1; 6.RP.1.2; 6. RP.1.3; 6.NS.2.3

Due: January 8th



1.

Cantaloupes are on sale for 2 for \$1.25. What is the unit rate?

- A. 64.5¢/cantaloupe
- B. 63.5¢/cantaloupe
- C. 62.5¢/cantaloupe
- D. 61.5¢/cantaloupe

2.

Which is a better price: 5 for \$1.00, 4 for 85¢, 2 for 25¢, or 6 for \$1.10?

- A. 5 for \$1.00
- B. 4 for 85¢
- C. 2 for 25¢
- D. 6 for \$1.10

3.

A box of 3 picture hangers sells for \$2.22. What is the unit rate?

- A. \$1.11 per hanger
- B. \$2.22 per hanger
- C. 74¢ per hanger
- D. 98¢ per hanger

4.

How many millimeters are there in 23 meters?

- A. 230 mm
- B. 2,300 mm
- C. 2.3 mm
- D. 23,000 mm

Metric Conversions

1 meter = 100 centimeters

1 meter = 1000 millimeters

1 kilometer = 1000 meters

5.

A school has an enrollment of 600 students. 330 of the students are girls. Express the fraction of students who are boys in lowest terms.

A. $\frac{12}{20}$

B. $\frac{11}{20}$

C. $\frac{9}{20}$

D. $\frac{13}{20}$

6.

The ratio of boys to girls in Mr. Yang's class is 4:3. If there are 16 boys in the class, how many girls are there?

A. 8 girls

B. 12 girls

C. 15 girls

D. 16 girls

7.

For which value of n is this inequality true?

$$600 - n > 465$$

A. $n = 130$

B. $n = 135$

C. $n = 136$

D. $n = 234$

8.

What is 25% of 24?

- A. 5
- B. 6
- C. 11
- D. 17

9.

What is 15% of 60?

- A. 9
- B. 12
- C. 15
- D. 25

10.

9 is what percent of 72?

- A. 7.2%
- B. 8%
- C. 12.5%
- D. 14%