

## **GENERAL DESCRIPTION OF SCORING GUIDELINES FOR MATHEMATICS OPEN-ENDED QUESTIONS**

- 4 – The response demonstrates a *thorough* understanding of the mathematical concepts and procedures required by the task.**

The response provides correct answer(s) with clear and complete mathematical procedures shown and a correct explanation, as required by the task. Response may contain a minor “blemish” or omission in work or explanation that does not detract from demonstrating a *thorough* understanding.

- 3 – The response demonstrates a *general* understanding of the mathematical concepts and procedures required by the task.**

The response and explanation (as required by the task) are mostly complete and correct. The response may have minor errors or omissions that do not detract from demonstrating a *general* understanding.

- 2 – The response demonstrates a *partial* understanding of the mathematical concepts and procedures required by the task.**

The response is somewhat correct with *partial* understanding of the required mathematical concepts and/or procedures demonstrated and/or explained. The response may contain some work that is incomplete or unclear.

- 1 – The response demonstrates a *minimal* understanding of the mathematical concepts and procedures required by the task.**

- 0 – The response has no correct answer and *insufficient* evidence to demonstrate any understanding of the mathematical concepts and procedures required by the task for that grade level.**

Response may show only information copied from the question.

Special Categories within zero reported separately:

BLK (blank).....Blank, entirely erased, or written refusal to respond

OT .....Off task

LOE .....Response in a language other than English

IL .....Illegible

Formulas and conversions that you may need on this test are found below.  
You may refer back to this page at any time during the mathematics test.

2024  
Grade 5

**Standard Conversions**

1 mile (mi) = 1,760 yards (yd)  
1 mile = 5,280 feet (ft)  
1 yard (yd) = 3 feet (ft)  
1 foot = 12 inches (in.)

1 ton (T) = 2,000 pounds (lb)  
1 pound = 16 ounces (oz.)

1 gallon (gal) = 4 quarts (qt)  
1 quart = 2 pints (pt)  
1 pint = 2 cups (c)  
1 cup = 8 fluid ounces (fl oz.)

**Metric Conversions**

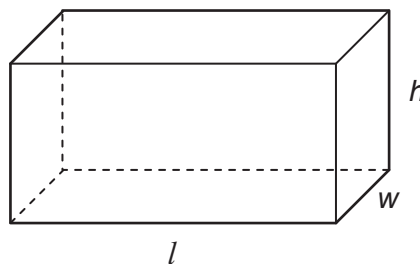
1 kilometer (km) = 1,000 meters (m)  
1 meter = 100 centimeters (cm)  
1 centimeter = 10 millimeters (mm)

1 kilogram (kg) = 1,000 grams (g)  
1 gram = 1,000 milligrams (mg)

1 liter (L) = 1,000 milliliters (mL)

**Time Conversions**

1 century = 10 decades  
1 decade = 10 years (yr)  
1 year (yr) = 12 months (mo)  
1 year = 52 weeks (wk)  
1 year = 365 days  
1 week = 7 days  
1 day = 24 hours (hr)  
1 hour = 60 minutes (min)  
1 minute = 60 seconds (sec)

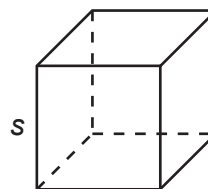
**Rectangular Prism**

Volume = length  $\times$  width  $\times$  height  
 $V = l \times w \times h$

Volume = area of the base  $\times$  height  
 $V = B \times h$

Volume = area of the base  $\times$  width  
 $V = B \times w$

Volume = area of the base  $\times$  length  
 $V = B \times l$

**Cube**

Volume = side edge  $\times$  side edge  $\times$  side edge  
 $V = s \times s \times s$