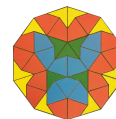


Penrose GED Prep

2.8 Review

Give these review problems a try.

- Which of the following is an expression for the absolute value of the the cube root of the sum of x and x^2 ?
 - $|(x + x^2)^3|$
 - $|\sqrt[3]{x} + x^2|$
 - $|\sqrt[3]{x + x^2}|$
 - $|\sqrt{x + x^2}|$
- What is the result when the expression $3x|x - 4| + 2x^2$ is evaluated for $x = 3$?
 - 9
 - 27
 - 45
 - 15
- Deanna and Jadrian decide to open a pizza shop. Each day, they spend \$1100 on ingredients. They charge \$15 for each pizza they sell. If they sell P pizzas tomorrow, how much money (in dollars) will they make?
 - $1100 - P$
 - $1100 \cdot P + 15$
 - $15P$
 - $15P - 1100$
- A marathon is 26.2 miles long. A group of x friends decide that, instead of running the whole marathon, each of them will run an equal part of it. Which of the following is a correct expression for the distance run by each friend??
 - $\frac{26.2}{x}$
 - 26.2
 - x
 - $26.2x$
- What is the value of $73.2^{23-22.1} - 24 \cdot \frac{12}{2^{2.1}-1}$, rounded to two decimal places?
 - 39.97
 - 4.47
 - 14.42
 - 52.85
- Which of the following expressions has the same value as $1+2+3+4+5$?
 - $\frac{(5+1)(5)}{2}$
 - $6 + 5 + 4 + 3 + 2$
 - $\frac{5^2}{2}$
 - 18
- $31.556736 \cdot 10^6$ seconds
 - $3.1556736 \cdot 10^7$ seconds
 - $5.259256 \cdot 10^5$ seconds
 - $1.314864 \cdot 10^6$ seconds



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8 You are moving to a new house. You want to put all of your belongings into storage. You have 10 boxes whose sides are each 45 centimeters long. You have 5 boxes whose sides are each 50 centimeters long. Which of the following expressions tells you how much storage space you have, in cubic centimeters? (Remember that the volume of a cube is the length of one of its sides cubed.)

(a) $10 \cdot 45 \cdot 3 + 5 \cdot 50 \cdot 3$ cc

(b) $10 \cdot 45^2 + 5 \cdot 50^2$ cc

(c) $10 + 45^3 \cdot 5 + 50^3$ cc

(d) $10 \cdot 45^3 + 5 \cdot 50^3$ cc