

Cumulative Review

Chapter 1

Multiple Choice

For Exercises 1–10, choose the correct letter.

- Which property is illustrated by $(3 + 5) + 7 = 3 + (5 + 7)$? **B**
A. Additive Identity C. Commutative Property of Addition
B. Associative Property of Addition D. Distributive Property
- Which algebraic expression represents the statement “4 more than the product of 6 and a number”? **I**
F. $4n + 6$ H. $4 - 6n$
G. $6 - 4n$ I. $6n + 4$
- What is the value of $-9 + (2^3 - 3^2)$? **B**
A. -26 B. -10 C. -8 D. -4
- What is the value of $\sqrt{49}$? **G**
F. $\sqrt{7}$ G. 7 H. 14 I. 49
- What is the order of the numbers $\sqrt{12}$, -3.5 , $\frac{5}{3}$, $-\frac{2}{3}$ from least to greatest? **D**
A. $\sqrt{12}$, -3.5 , $\frac{5}{3}$, $-\frac{2}{3}$ C. -3.5 , $-\frac{2}{3}$, $\sqrt{12}$, $\frac{5}{3}$
B. $\sqrt{12}$, $\frac{5}{3}$, $-\frac{2}{3}$, -3.5 D. -3.5 , $-\frac{2}{3}$, $\frac{5}{3}$, $\sqrt{12}$
- Which ordered pair is not a solution of $y = 2x + 1$? **H**
F. (3, 7) G. (0, 1) H. (-1, 1) I. (-3, -5)
- Which expression is equivalent to $-3.2(2x - 2.1)$? **A**
A. $-6.4x + 6.72$ C. $6.4x + 6.72$
B. $-6.4x - 6.72$ D. $-6.4x + 2.1$
- Toby purchased 5 tickets online for a show. The tickets cost \$12 each plus there was a \$3.50 service fee for the order. How much money did Toby spend for the tickets? **I**
F. \$15.50 G. \$51.50 H. \$60 I. \$63.50
- What is the value of $3^3 - (4^2 - 2^3)$? **C**
A. -1 B. 7 C. 19 D. 35
- Which expression is equivalent to $4(2x + 1) - (-6x)$? **F**
F. $14x + 4$ G. $8x - 2$ H. $2x + 4$ I. $-14x - 4$

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Minjie Lin



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web the fifteen elements shown in table pageindex 1 from lanthanum La 4f 0 to lutetium Lu 4f 14 are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium Sc and yttrium Y are sometimes called rare earth elements they are relatively abundant in the earth s crust

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web nov 1 1998 production of lanthanides has shown a continuous increase in recent years 50 taking all these facts into account it is reasonable to consider the development of corrosion protection methods using this family of compounds at first the lanthanide elements principally cerium were used in protection against corrosion at high

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web lanthanides metals peptides and proteins selectivity abstract the essential biological role of rare earth elements lay hidden until the discovery in 2011 that lanthanides are specifically incorporated into a bacterial methanol dehydrogenase

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web jan 1 2000 powell describes displacement chromatography and elution chromatography as the two principal methods for separating lanthanide cations by ion exchange chromatography in displacement chromatography the ions to be separated are first sorbed onto a column of the resin the analyte metals are eluted from the column

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web feb 4 2021 the lanthanides are located on the top row of the two rows of elements found below the main body of the periodic table placing the lanthanides and the actinides the row below the lanthanides below the other elements is just a matter of aesthetics the lanthanides belong to period 6 like cesium barium and hafnium