Cumulative Review

Chapters 1-5

Multiple Choice

For Exercises 1-11, choose the correct letter.

- 1. What is true about the graphs of y = -4x + 6 and $y \frac{1}{2}x + 6$?
 - A. They are parallel.

C. They are perpendicular. D. They do not intersect.

B. They have the same slope.

- A mail order company sells boxes of fishing lures for \$26.95 per box. A charge of \$8.95 is added to orders, regardless of the order size. Which of the following equations models the relationship between the number of boxes ordered and the total cost of the order?
 - F. $c = 26.95 \text{mg as } \approx 1$ $G. 8.95c = 26.95wt w \ge 1$

- $H, c = (26.95 + 8.95)w; w \ge 1$ L $c = 26.95w + 8.95cw \ge 1$
- 3. Which of the following is the correct simplication of the expression
 - $6^2 + 15 + 3 + 4 \times 32$ A 63 B. 53

C. 29

D 21

- 4. Which is not a solution of 3x 5 < 17? G. 5

- 1. 12.
- 5. Which of the following statements is not true for the graph of the equation 5x + 3y - 12?
 - A. The y-intercept is 4.

C. The x-intercept is 2.4

B. The line has a positive slope.

- **D.** The line contains the point $(2, \frac{2}{5})$.
- What is the constant of variation for 3y = 6x?
 - F. &

G. 2

BHL 38

1. 6

- 7. What is f(-4) when $f(x) = -x^2 2x$?

- 8. The Girl Scouts hoped to raise \$1000 selling cookies. Instead, they raised \$1050. What percent of their goal did they achieve?
 - E 115%

G. 105%

H. 100%

L. 98576

- Which of the following is the solution of 3(5x 6) = -63?

0. 5

C. 3.

D. 15.

- 10. What is $\frac{8x + 3y^2}{4y 3x}$ when x = 2 and y = 3?
 - F. -22

H. 7.5

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Wolfgang Guggemos

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