

Cumulative Review 1 – 2
Form B

Choose the correct answer to each problem.

For problems 1 – 7, perform the indicated operation.

1. $79 - 16(3 - 5) + 2 \cdot 3$
a. 339 b. 117 c. 126 d. -120

2. $2(3 - 4)^3 - (-3 - 2^2)$
a. 9 b. 5 c. 27 d. -38

3. $7 - 4 \div 2 + 2$
a. 3 b. $\frac{7}{2}$ c. $\frac{3}{4}$ d. 7

4. $|-2.9|$
a. $\frac{1}{2.9}$ b. -2.9 c. 2.3 d. No solution

5. $\frac{9 - 3(2^3 - 4)}{3 \cdot 4 - 2^2}$
a. $-\frac{3}{8}$ b. 3 c. $\frac{12}{5}$ d. $\frac{13}{4}$

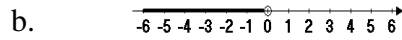
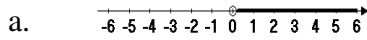
6. $2[x - (y + 1)] - 4[x + 2(y - 3)]$
a. $-2x - 10y - 4$ b. $-2x + 6y - 4$
c. $-2x - 6y - 4$ d. $-2x - 10y + 22$

7. $4x^3 + 3x - 3x^3 + 4x$
a. $-12x^3 + 12x$ b. $x^3 + 7x$ c. $8x^3$ d. $8x^8$

Name _____

Date _____

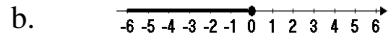
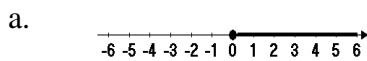
15. $-(3x - 4) \geq 1 - 2x + 4 - x$



c. All real numbers

d. No solution

16. $-8x + 6 \geq -2x + 6$



c. All real numbers

d. No solution

17. $12 + 3(x - 2) < -3(x - 2)$

a. $\{x \mid x < 2\}$

b. $\{x \mid x < 0\}$

c. $\{x \mid x \text{ is a real number}\}$

d. No solution

18. Solve $t = 2s - v$ for s .

a. $s = \frac{t - v}{2}$

b. $s = \frac{1}{2}t + v$

c. $s = \frac{1}{2}t - v$

d. $s = \frac{t + v}{2}$

19. Solve $A = \frac{bh}{2}$ for h .

a. $h = \frac{Ab}{2}$

b. $h = \frac{2A}{b}$

c. $h = \frac{2b}{A}$

d. $h = 2A - b$

20. What number is 41% of 1200?

a. 492,000

b. 4920

c. 492

d. 292.68

21. 295 is what percent of 59?

a. .05%

b. 5%

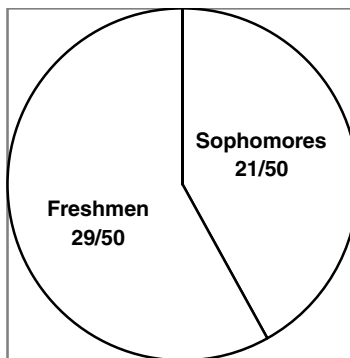
c. 500%

d. 50%

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22. A rectangle has a length that is 4 less than 2 times its width. If the perimeter is 82 centimeters, what is the length?
a. $\frac{37}{3}$ cm b. $\frac{62}{3}$ cm c. 15 cm d. 26 cm
23. The quotient of a number and 6, increased by 3, is 39. Find the number.
a. 216 b. 36 c. 6 d. 7
24. A sales job pays \$500 a month plus a 10% commission of all sales. If you need at least \$1200 a month to pay the bills, what value of sales must you sell?
a. $\geq \$70,000$ b. $\geq \$7000$ c. $\geq \$12,000$ d. $\geq \$120,000$
25. The circle chart shows the percentage of freshmen and sophomores at a local community college. If there are 1566 freshman, what is the total enrollment of freshmen and sophomores?



- a. 1134 b. 908 c. 2700 d. 27