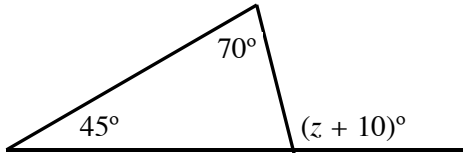


<p>1. Solve for y: $8(y + 3) = 5(10 - y)$</p>	<p>6. Simplify: $5x^2 \cdot 4x \cdot 3x^3$</p>
<p>2. Find the value of z.</p> 	<p>Which property is illustrated by the equation $abc \cdot 1 = abc$?</p> <p>7. (1) distributive property of multiplication (2) identity property of multiplication (3) associative property of multiplication (4) commutative property of multiplication</p>
<p>The expression $3 \times 3 \times 3 \times 3$ is equivalent to</p> <p>3. (1) 3^3 (2) 3^4 (3) 3^5 (4) 4^3</p>	<p>8. Simplify: $\frac{4xy^2}{2x^2y}$</p>
<p>Which statement is logically equivalent to the statement "If you failed the exam, then you have to attend tutoring"?</p> <p>4. (1) If you did not fail the exam, then you do not have to attend tutoring. (2) If you failed the exam, then you do not have to attend tutoring. (3) If you have to attend tutoring, then you failed the exam. (4) If you do not have to attend tutoring, then you did not fail the exam.</p>	<p>The product of $3x^5$ and $2x^4$ is</p> <p>9. (1) $5x^9$ (2) $5x^{20}$ (3) $6x^9$ (4) $6x^{20}$</p>
<p>5. Simplify: $(-9x^3)(5x^3)$</p>	<p>For which value of x is the fraction $\frac{2x + 2}{x - 4}$ undefined?</p> <p>10. (1) -1 (2) 2 (3) -2 (4) 4</p>

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

11. Solve for x : $\frac{x-1}{4} = \frac{1}{2}$

12. Simplify: $\frac{8a^3c}{24a^3bc}$

11.

12.

13. (2 points)

The number of chirps made by a cricket varies directly as the temperature. If at 12° a cricket chirps 30 times per minute, how many times per minute will the cricket chirp at 20° ?

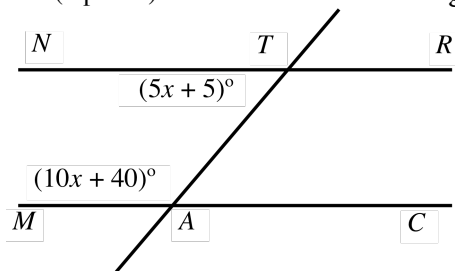
13.

14. (2 points)

Last Friday, Evelyn and Shantel ordered Chinese food. The total came to \$13.30, they gave the delivery person \$15, and told him to keep the change. What percent tip did they give?

14.

15. (2 points) Find the number of degrees in $\angle MAT$.



15.

16. (2 points)

Three numbers are in the ratio $3 : 5 : 7$. If the largest number is multiplied by 3, the result is 26 more than the sum of the first and second numbers. Find the numbers.

16.
