

<p>Two numbers are in the ratio 3 : 5.</p> <p>1. If 9 is added to their sum, the result is 41. Find the numbers.</p>	<p>6. Solve for x : $\frac{3}{2}x = \frac{x+7}{3}$</p>	<p>1. _____</p> <p>2. _____</p>
<p>Joe has a large CD collection. He gives half of his CDs to his sister Shantel. Then, he gives 50 of his remaining CDs to his brother Javier. If he has 139 CDs left for himself, how large was his CD collection initially?</p> <p>(1) 200 (3) 378 (2) 300 (4) 410</p>	<p>Which property is illustrated by the equation $abc = acb$?</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>3. _____</p> <p>4. _____</p>
<p>A boy travelled 11 miles on his bicycle in 2 hours. At the same rate, how long will it take him to travel 44 miles?</p>	<p>Mr. Gray and Ms. Charles are business partners. They agree to share the business profits in the ratio 4 : 3. One year the profits amounted to \$35,000. How much money did each partner receive?</p>	<p>5. _____</p> <p>6. _____</p>
<p>A team played 144 games. The ratio of the number of games won to the number of games lost was 3 : 1. Find the number of games the team won.</p>	<p>Jose currently works at a local shop and earns approximately \$16,000 per year. He is considering going to college and read that the average salary of college grads is 40% higher than the average salary of high school grads. If Jose receives a college diploma, how much could he expect to earn?</p>	<p>7. _____</p> <p>8. _____</p>
<p>5. Solve for y : $4x - 2y = 12p$</p>	<p>Which equation could be used to solve the problem below?</p> <p>If three times a number is increased by 24, the result is 4 less than seven times the number.</p> <p>10. (1) $3(x + 24) = 7x - 4$ (3) $3x + 24 = 7x - 4$ (2) $3x + 24 = 4 - 7x$ (4) $27x = 7x - 4$</p>	<p>9. _____</p> <p>10. _____</p>

<p>11. One meter is about 3.28 feet. How many meters are in the height of a 6 foot pole? Round your answer the <i>nearest tenth</i> of a meter.</p>	<p>12. After Mr. Sims lost 15% of his investment, he had \$2,550 left. How much did he invest originally?</p>
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11. _____

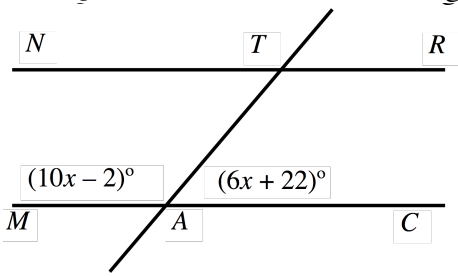
12. _____

<p>13. (2 points) There are 100 cookies. The cookies are to be divided among Scott, Joseph, and Julio in the ratio 4 : 7 : 9. Determine the number of cookies each person is to receive.</p>
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13. _____

<p>14. (2 points) The ages of three people, Jennifer, Laura, and Emily, are consecutive even integers. (Jennifer is the youngest and Emily is the oldest.) If four times Jennifer's age exceeds Emily's age by the sum of Laura and Emily's ages, what are the ages of each person?</p>

14. _____

<p>15. (2 points) Find the number of degrees in $\angle CAT$.</p> 

15. _____

<p>16. Solve for x: $\frac{3-7x}{15} \geq 3$</p>	<p>17. Which product is a factored form of $3x^2 - 18x + 24$?</p> <p>(1) $3(x-4)(x+2)$ (3) $3(x+4)(x-2)$ (2) $3(x+4)(x+2)$ (4) $3(x-4)(x-2)$</p>
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16. _____

17. _____