

<p>Solve and CHECK</p> <p>1. <math>\frac{y}{4} - 3 = -4</math></p>	<p>Solve and CHECK</p> <p>2. <math>-\frac{3d}{4} + 5 = 11</math></p>	<p>Solve and CHECK</p> <p>3. <math>7(x - 5) = 42</math></p>
<p>Solve and CHECK</p> <p>4. <math>-4b - 5 + 2b = 10</math></p>	<p><b>Write and solve an equation.</b></p> <p>5. Online concert tickets cost \$37 each, plus a service charge of \$8.50 per ticket. The Website also charges a transaction fee of \$14.99 for the purchase. You paid \$242.49. How many tickets did you buy?</p>	<p><b>Solve, then label as <i>no solution</i> or <i>identity</i> if appropriate.</b></p> <p>6. <math>3(h - 4) = -\frac{1}{2}(24 - 6h)</math></p>
<p>7. A train makes a trip at 65 mph. A plane traveling 130 mph makes the same trip in 3 fewer hours. Write and solve an equation to find the distance of the trip.</p>	<p><b>Solve the equation for x</b></p> <p>8. <math>\frac{x+r}{t} + 1 = 0</math></p>	<p><b>Solve, round to nearest tenth, if needed.</b></p> <p>9. What is the width of a rectangle with length 5.5cm and area 220 cm<sup>2</sup>?</p>
<p><b>Solve, round to nearest tenth, if needed.</b></p> <p>10. A triangle has height 15 in. and area of 120 in<sup>2</sup>. What is the length of its base?</p>	<p><b>Convert the given amount to the given unit.</b></p> <p>11. 2.25 mi; yd</p>	<p>12. A gerbil eats about <math>\frac{1}{4}</math> oz of food per day. About how many pounds of food will he eat in a year?</p>

<p>13. If a baseball travels 90 mph, how many seconds does it take to travel 60 ft?</p>	<p><b>Solve the proportion.</b></p> <p>14. <math>\frac{3}{7} = \frac{9}{x}</math></p>	<p><b>Solve the proportion.</b></p> <p>15. <math>\frac{b+3}{7} = \frac{b-3}{6}</math></p>
<p>16. An airplane has a wingspan of 25 ft and a length of 20 ft. You are designing a model of the airplane with a wingspan of 15 in. What will the length of your model be?</p>	<p>17. What percent of 37 is 111?</p>	<p>18. What is 72% of 150?</p>
<p>19. 60% of what number is 102?</p>	<p>20. A gardener expects that 75% of the seeds she plants will produce plants. She wants 45 plants. How many seeds should she plant?</p>	<p>21. Tell whether each percent change is an increase or a decrease. Then find the percent change. Round to the nearest percent.</p> <p>Original amount: 873 New amount: 781</p>
<p>22. In 1970, the US population was about 205 million people. In 2007, it was about 301 million. What was the percent increase?</p>	<p>23. This morning the temperature was 38°F. This afternoon it is 57°F. Did the temperature increase by 50%? Explain.</p>	<p>Extra space to explain #23:</p>

Scrambled answers: 47, 21,11, -4, 40,300,11,identity,~0.45,108,-8, x=-t-r,16,~6,39,60,-15/2,390,12,5,170,yes,3960