

Week 18

<p>1. What is the first step in solving the equation $16 = 6x + 4$?</p> <p>A. Multiply by six on both sides of the equation B. Divide by six on both sides of the equation C. Add four on both sides of the equation D. Subtract four on both sides of the equation</p> <p style="text-align: right;">MS7 12-1</p>	<p>6. Jennifer was traveling from Atlanta to Carnesville driving 55 mph. Which of the following does NOT express time to distance as a ratio?</p> <p>A. 1:55 B. 1 to 55 C. $\frac{1}{55}$ D. $1 + 55$</p> <p style="text-align: right;">MS7 5-1 and 5-2</p>
<p>2. Simplify the expression $-3(4a + 5)$</p> <p>A. $12a + 5$ B. $12a + 15$ C. $-12a + 5$ D. $-12a - 15$</p> <p style="text-align: right;">MS7 1-9</p>	<p>7. Which of the following DOES NOT correctly express the ratio $\frac{1}{2}$ as a proportion? Show Work!</p> <p>A. $\frac{1}{2} = \frac{3}{6}$ B. $\frac{12}{24} = \frac{4}{8}$ C. $\frac{9}{18} = \frac{10}{20}$ D. $\frac{11}{22} = \frac{33}{44}$</p> <p style="text-align: right;">MS7 5-4</p>
<p>3. Identify the property shown below: $23 + (27 + 139) = (23 + 27) + 139$</p> <p>A. Distributive Property B. Commutative Property of Addition C. Identity Property of Addition D. Associative Property of Addition</p> <p style="text-align: right;">MS7 1-6</p>	<p>8. Given the ratio $\frac{4}{6}$, which of the following represents an equivalent ratio?</p> <p>A. $\frac{8}{16}$ B. $\frac{9}{12}$ C. $\frac{10}{15}$ D. $\frac{14}{16}$</p> <p style="text-align: right;">MS7 5-1</p>
<p>4. Rewrite the expression using simplest terms. $5(2a - 6 + 3b - 4a)$</p> <p>A. $-10a - 6 + 3b - 4a$ B. $-10a + 15b - 30$ C. $20a - 6 + 3b - 4a$ D. $16a - 6 + 3b$</p> <p style="text-align: right;">MS7 1-6 and 1-9</p>	<p>9. Solve the proportion $\frac{7}{8} = \frac{x}{20}$.</p> <p>A. $x = 14$ B. $x = 17.5$ C. $x = 21$ D. $x = 24.5$</p> <p style="text-align: right;">MS7 5-5</p>
<p>5. Josie has the following choices of clothing in her closet: a white shirt, red or blue shorts, and sneakers or sandals. Which diagram shows all of the possible combinations of 1 shirt, 1 pair of shorts, and 1 kind of shoes?</p> <p>A. white — red — blue</p> <hr/> <p>B. $\begin{array}{l} \text{white} \begin{cases} \text{red} & \text{--- sneakers} \\ \text{blue} & \text{--- sandals} \end{cases} \end{array}$</p> <hr/> <p>C. $\begin{array}{l} \text{white} \begin{cases} \text{red} \begin{cases} \text{sneakers} \\ \text{sandals} \end{cases} \\ \text{blue} \begin{cases} \text{sneakers} \\ \text{sandals} \end{cases} \end{cases} \end{array}$</p> <hr/> <p>D. $\begin{array}{l} \text{white} \begin{cases} \text{red} & \text{--- sneakers} \\ \text{red} & \text{--- sandals} \end{cases} \end{array}$</p> <p style="text-align: right;">MS7 8-10</p>	<p>10. Solve.</p> $\frac{41}{b} = \frac{72.8}{100}$ <p>A. $b = 56$ B. $b = 56.22$ C. $b = 56.32$ D. $b = 55$</p> <p style="text-align: right;">MS7 5-5</p>

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<p>11. Evaluate $b^3 + 6$ if $b = -2$.</p> <p>A. -14 B. 14 C. 2 D. -2</p> <p style="text-align: right;">MS7 8-10</p>	<p>16. Find the value of d that makes the equation true.</p> $d \div (-8) = -14$ <p>A. -112 B. 96 C. 112 D. 150</p> <p style="text-align: right;">MS7 5-7</p>
<p>12. A submarine descends 720 feet below the sea level. Then it ascends 150 feet. What is the current location of the submarine expressed as an integer?</p> <p>A. 870 feet B. -870 feet C. 570 feet D. -570 feet</p> <p style="text-align: right;">MS7 2-2 and 2-3</p>	<p>17. With 6 gallons of gas, you are able to drive 75 miles. How many miles does your car get per gallon?</p> <p>A. $\frac{0.08 \text{ gallons}}{1 \text{ mile}}$ B. $\frac{450 \text{ gallons}}{1 \text{ mile}}$ C. $\frac{12.5 \text{ miles}}{1 \text{ gallon}}$ D. $\frac{450 \text{ miles}}{1 \text{ gallon}}$</p> <p style="text-align: right;">MS7 5-2</p>
<p>13. On Monday, the postman delivered 5 checks for \$3 each and 2 bills for \$2 each. If your beginning bank account balance is \$25, what will be the ending balance once you deposit the checks and pay the bills?</p> <p>A. -\$26 B. \$6 C. \$26 D. \$36</p> <p style="text-align: right;">MS7 2-2 and 2-3</p>	<p>18. Anita owns three brown skirts, w white skirts, and two red skirts. Which equations shows how to find how many white skirts she owns if she owns eight skirts in all?</p> <p>A. $3 + w + 8 = 2$ B. $3 + 2 + 8 = w$ C. $3w + 2 = 8$ D. $3 + w + 2 = 8$</p> <p style="text-align: right;">MS7 12-1</p>
<p>14. During the football game, Jay caught three passes. The 1st was a touchdown of 52 yards. The 2nd was for a 1st down of 17 yards. The final pass was a screen pass that had a loss of 10 yards. What was the total yardage on the three pass plays?</p> <p>A. -39 B. 59 C. 62 D. 69</p> <p style="text-align: right;">MS7 2-2 and 2-3</p>	<p>19. Look at the proportion below. It can be solved using a variety of methods. Solve the proportion using two different methods. Show your work.</p> $\frac{120}{x} = \frac{8}{5}$
<p>15. The accompanying box-and-whisker plots can be used to compare the annual incomes of three professions.</p> <div style="text-align: center;"> </div> <p>Which of the following statements is true?</p> <p>A. The median income for engineers is greater than the income of all musicians B. The median income for police officers and musicians is the same. C. All engineers earn more than all police officers. D. A musician will eventually earn more than a police officer.</p> <p style="text-align: right;">MS7 5-5</p>	