

Additional Exercises 5.5

Name: _____

Date: _____

Example 1: Simplify. $(0.4 - 0.2)^2 - 0.5(3)$

$(0.4 - 0.2)^2 - 0.5(3)$	Work inside parentheses first.
$(0.2)^2 - 0.5(3)$	Perform exponent operation.
$0.04 - 0.5(3)$	Perform multiplication.
$0.04 - 1.5$	Add.
-1.46	

Example 2: Evaluate $x^2 - 3y$ if $x = -1.3$ and $y = 0.5$

$$\begin{aligned}
 &x^2 - 3y \\
 &(-1.3)^2 - 3(0.5) \\
 &1.69 - 1.5 \\
 &0.19
 \end{aligned}$$

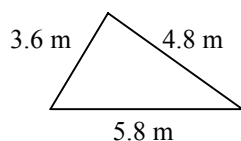
Exercises

Evaluate.

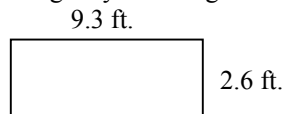
- | | |
|-------------------------|----------|
| 1. $3.6 + 2.9 - 6.5$ | 1. _____ |
| 2. $9.8 - 4.2$ | 2. _____ |
| 3. $0.48(2.3)$ | 3. _____ |
| 4. $75.2 \div 15$ | 4. _____ |
| 5. $752.6 + 29 + 0.037$ | 5. _____ |

Solve.

6. Estimate the perimeter of the triangle by rounding each measurement to the nearest whole meter. 6. _____



7. Estimate the area of the rectangle by rounding each measurement to the nearest whole foot. 7. _____



8. A new car is advertised as costing \$375.99 a month for 60 months. Estimate the total cost of the car by rounding the monthly payment to the nearest hundred dollars. 8. _____

9. Yamu has only a \$20 bill. She wants to buy a \$2.69 bottle of shampoo, a \$1.89 bottle of cream rinse, two \$.89 notebooks, and an \$11.95 cassette. Estimate the cost of these items to see if she has enough money. 9. _____

10. It is 6.8 miles from Tom's home to his mom's house, 5.4 miles from his mom's house to his girlfriend's house, and 3.9 miles from his girlfriend's house to work. Estimate how far he must drive to visit his mom and then his girlfriend on his way from home to work. 10. _____

Additional Exercises 5.5 (cont.)

Name: _____

Simplify each expression.

11. $(0.05)^3$

11. _____

12. $\frac{1 - 0.075}{0.05}$

12. _____

13. $7 - 4(0.2)$

13. _____

14. $\frac{2.97 + 3.65}{0.02}$

14. _____

15. $(-1.5)^2$

15. _____

16. $\frac{(2.5)^2}{100}$

16. _____

17. $(4.1)(100) - (4.1)(10)$

17. _____

18. $0.4(7.5 - 1.9)$

18. _____

19. Evaluate $x^2 + y$ if $x = 0.5$ and $y = 0.8$.

19. _____

20. Evaluate $xy \div z$ if $x = 12$, $y = 0.6$, and $z = 0.4$.

20. _____