

Independent Practice

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Multiply. (Examples 1–5)

1. $8(-12) =$ _____

2. $-15(-4) =$ _____

3. $(-6)^2 =$ _____



4. $(-5)^3 =$ _____

5. $-4(-2)(-8) =$ _____

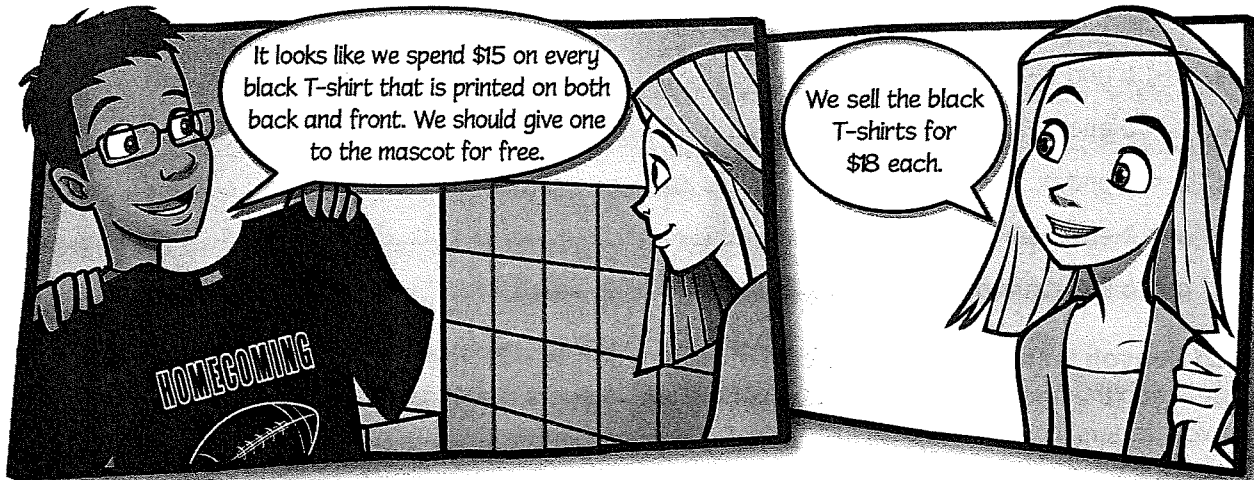
6. $-3(-2)(1) =$ _____

Write a multiplication expression to represent each situation. Then find each product and explain its meaning. (Example 6)

7. Ethan burns 650 Calories when he runs for 1 hour. Suppose he runs 5 hours in one week.

8. Wave erosion causes a certain coastline to recede at a rate of 3 centimeters each year. This occurs uninterrupted for a period of 8 years.

9. **PS Model with Mathematics** Refer to the graphic novel frame below. How many black T-shirts would Hannah and Dario need to sell to make up the loss in profit?



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Divide. (Examples 1, 2, 4, and 5)

1. $50 \div (-5) =$

2. $-18 \div 9 =$

3. $-15 \div (-3) =$

4. $-100 \div (-10) =$

Show your work.

5. $\frac{22}{-2} =$ _____

6. $\frac{84}{-12} =$ _____

7. $\frac{-26}{13} =$ _____

8. $\frac{-21}{-7} =$ _____

Evaluate each expression if $r = 12$, $s = -4$, and $t = -6$. (Example 6)

9. $r \div s$ _____

10. $rs \div 16$ _____

11. $\frac{t-r}{3}$ _____

12. $\frac{8-r}{-2}$ _____

13. The distance remaining for a road trip over several hours is shown in the table. Use the information to find the constant rate of change in miles per hour. (Example 3)

Time (h)	Distance Remaining (mi)
2	480
4	360
6	240
8	120

14. **PS Justify Conclusions** Last year, Mr. Engle's total income was \$52,000, while his total expenses were \$53,800. Use the expression $\frac{I-E}{12}$, where I represents total income and E represents total expenses, to find the average difference between his income and expenses each month. Then explain its meaning. (Example 7)
