

Perform the indicated operation.

1. $12 \div 1.5$

2. 3.3×7

3. $11.6 - 5.9$

4. Julia ran $10\frac{2}{3}$ miles last week and $8\frac{5}{6}$ miles this week.

How many more miles did she run last week?

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ANSWERS

Warm-Ups: 1. 8 2. 23.1 3. 5.7 4. $1\frac{5}{6}$ mi

Evaluate the expression.

1. $a + 5.7$ when $a = 1.3$
 2. b^3 when $b = 4$
 3. The number of weeks it takes you to read a novel is given by $\frac{n}{p}$, where n is total pages in the novel and p is pages read per week. How long will it take you to read a 340-page novel if you read 85 pages per week?
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Daily Homework Quiz*For use after Lesson 1.1, pages 2–7***Evaluate the expression or power.**

1. $13g$ when $g = 7$
2. $1.65 - a$ when $a = 0.75$
3. 5^4
4. $\left(\frac{1}{3}\right)^3$
5. Emily is saving for a \$300 bicycle. She has saved \$128.25. The amount she still needs to save is given by the expression $c - s$, where c is the cost of the bicycle and s is the amount she has saved. How much does she have left to save?

ANSWERS**Warm-Ups:** 1. 7 2. 64 3. 4 weeks**Daily Homework Quiz:** 1. 91 2. 0.9 3. 625 4. $\frac{1}{27}$
5. \$171.75

Warm-Up Exercises*For use with pages 14–20*

1. Evaluate $2[54 \div (4^2 + 2)]$.
 2. Evaluate $\frac{5x}{x + 2}$ when $x = 3$.
 3. Eight students each ordered 2 drawing kits and 4 drawing pencils. The expression $8(2k + 4p)$ gives the total cost, where k is the cost of a kit and p is the cost of a pencil. Find the total cost if a kit costs \$25 and a pencil costs \$1.25.
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Daily Homework Quiz*For use after Lesson 1.2, pages 8–13***Evaluate the expression.**

1. $3^3 \div 9 + 4 \cdot 3$
2. $12 + (5 - 3)^2$
3. $2(c^2 + 4)$ when $c = 4$
4. $\frac{g^2 - 8}{2g - 5}$ when $g = 6$
5. The cost (in dollars) to buy p posters at the Posters Plus online store is given by the expression $3.5p + 6.75$. At the More Posters online store, the cost is given by $4.25p + 2.55$. Which store has the lower cost for 5 posters?

ANSWERS**Warm-Ups:** 1. 6 2. 3 3. \$440**Daily Homework Quiz:** 1. 15 2. 16 3. 40 4. 4
5. More Posters

1. Write an expression for the phrase: 4 times the difference of 6 and a number y .
 2. A museum charges \$50 for an annual membership and then a reduced price of \$2 per ticket. Write an expression to represent the situation. Then find the total cost to join the museum and buy 9 tickets.
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Daily Homework Quiz

For use after Lesson 1.3, pages 14–20

1. Write an expression for the situation: The number of miles left in a 425-mile trip after m miles have been traveled.
2. Find the unit rate for the rate $\frac{18 \text{ figurines}}{6 \text{ boxes}}$.
3. A video store charges \$5 per game rental plus \$12 to rent the game system. Write an expression for renting the game system and a number of games. Then find the total cost if you rent 6 games.

ANSWERS

Warm-Ups: 1. $4(6 - y)$ 2. $50 + 2t$, where t is the number of tickets; \$68

Daily Homework Quiz: 1. $425 - m$ 2. 3 figurines per box
3. $5g + 12$, where g is the number of games; \$42

- Mr. Lu is planting trees around the perimeter of a rectangular park. The park measures 72 feet by 48 feet. The trees need to be spaced 12 feet apart. A tree is to be planted in each corner. How many trees are needed?
- In an aviary, there are three times as many finches as mockingbirds. If there are 48 birds, how many mockingbirds are there?

Daily Homework Quiz

For use after Lesson 1.4, pages 21–26

Write an equation or an inequality.

- 3 less than twice a number n is 12.
- The product of 5 and a number k is no more than 30.
- Check whether 2 is a solution of the inequality $3p + 2 > 8$.
- You need to practice a gymnastic routine for at least 25 hours. You have already practiced 8.5 hours. If you practice for another 16.5 hours, will you reach your goal? Explain.

ANSWERS

Warm-Ups: 1. 20 trees 2. 12 mockingbirds

Daily Homework Quiz: 1. $2n - 3 = 12$ 2. $5k \leq 30$

3. $8 \not> 8$; 2 is *not* a solution. 4. Yes; the inequality $h + 8.5 \geq 25$ represents the situation. If you substitute 16.5 for h , $16.5 + 8.5 = 25$ and $25 \geq 25$.

Warm-Up Exercises*For use with pages 35–41*

1. Write an expression: 7 more than a number x .
 2. Determine if 3 is a solution of $2x - 4 = 2$.
 3. Gae spent \$4 more than twice as much as Casey at a store. If Casey spent \$6, how much did Gae spend?
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Daily Homework Quiz*For use after Lesson 1.5, pages 28–33*

1. Gerry is borrowing money from a friend at a simple interest rate of 4%. If she borrows \$2000 and plans to pay it back in 2 years, how much interest will she owe?
2. A migrating whale is traveling at an average speed of 5.4 kilometers per hour. How far will the whale travel in 18 hours at this rate?
3. Skye sells baskets that she weaves from sweet grass. She makes a profit of \$68 per basket and her expenses are \$2.50 per basket. How much does she charge a customer for 3 baskets?

ANSWERS**Warm-Ups:** 1. $x + 7$ 2. $2 = 2$; 3 is a solution. 3. \$16**Daily Homework Quiz:** 1. \$160 2. 97.2 km 3. \$211.50

Warm-Up Exercises

For use with pages 42–48

1. Make a table for $y = 2x + 3$ with domain 0, 3, 6, and 9.
2. Write a rule for the function.

Input, x	0	2	4	9
Output, y	1	7	13	28

Daily Homework Quiz

For use after Lesson 1.6, pages 35–41

1. The domain of the function $y = \frac{2}{3}x + 1$ is 0, 3, 6 and 9.
Make a table for the function. Identify the range of the function.
2. Write a rule for the function.

Input, x	2	3	4	5
Output, y	3	4.5	6	7.5

3. Jasmine sells bracelets. Her profit on each bracelet is \$8. Write a rule that shows her total profit p as a function of the number of bracelets b she sells. Write the range of the function if the domain is 5, 10, 15, 20, and 25.

ANSWERS

Warm-Ups: 1.

x	0	3	6	9
y	3	9	15	21

2. $y = 3x + 1$

Daily Homework Quiz: 1.

x	0	3	6	9
y	1	3	5	7

range: 1, 3, 5, 7

2. $y = 1.5x$ 3. $p = 8b$; range: 40, 80, 120, 160, 200