

Practice B

For use with pages 3–8

Evaluate the expression for the given value of the variable.

- | | | |
|---------------------------------|---|---|
| 1. $13x$ when $x = 4$ | 2. $y - 4$ when $y = 23$ | 3. $0.3x$ when $x = 2.5$ |
| 4. $w + 8$ when $w = 36$ | 5. $x(7)$ when $x = 2.9$ | 6. $2.4 \div a$ when $a = 6$ |
| 7. $\frac{g}{12}$ when $g = 72$ | 8. $\frac{13}{m}$ when $m = 2.6$ | 9. $\frac{5}{8} \cdot t$ when $t = \frac{4}{5}$ |
| 10. $h(2.5)$ when $h = 0.1$ | 11. $\frac{2}{3} + x$ when $x = 2\frac{2}{3}$ | 12. $\frac{24}{y}$ when $y = 0.6$ |

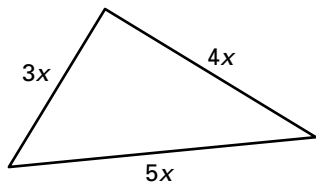
Calculate the simple interest earned.

$$\boxed{\text{Simple Interest}} = \boxed{\text{Amount of deposit}} \cdot \boxed{\text{Interest rate (decimal)}} \cdot \boxed{\text{Time (years)}}$$

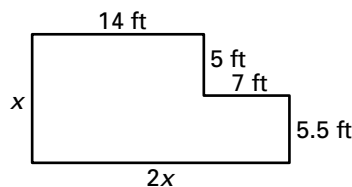
- | | | |
|---|--|--|
| 13. deposit \$500
4% interest
2 years | 14. deposit \$250
5.5% interest
0.5 year | 15. deposit \$2000
$6\frac{1}{4}\%$ interest
1.5 years |
|---|--|--|

Find the average speed for the given distance and time. Include the units of measure in your answer.

16. An airplane travels 770 miles in 120 minutes.
 17. A friend jogs $2\frac{1}{2}$ miles in $\frac{1}{2}$ hour.
 18. A car travels 244 kilometers in $2\frac{1}{2}$ hours.

In Exercises 19 and 20, use the diagram below.

19. Write an expression for the perimeter of the triangle.
 20. Find the perimeter, in feet, if $x = 8$ inches.

In Exercises 21 and 22, use the diagram below.

21. Write an expression for the perimeter of the figure shown.
 22. Find the perimeter, in yards, if $x = 10.5$ feet.

23. **Burning Calories** A 140-pound student playing tennis burns 5.3 calories per minute. If the student plays for 30 minutes, how many calories does the student burn?

24. **Burning Calories** A 140-pound student burned 310 calories after roller blading for 50 minutes. How many calories did the student burn per minute?