

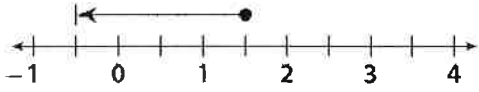
MODULE
5

Proportions and Percent

Module Quiz: B

Use the table for 1–2.

Sales Tax in Cities	
River City	3%
Springfield	4.1%
Thompsonville	2.9%
Union City	3.2%

- Liz wants to buy a shirt for \$25. How much will Liz's shirt cost in Springfield rounded up to the nearest cent?
 - \$25.50
 - \$26.00
 - \$26.03
 - \$36.66
- How much more will her shirt cost in Union City than in River City?
 - \$0.01
 - \$0.05
 - \$0.10
 - \$25.80
- A town's population went from 25,800 to 42,600 in 15 years. What was the percent of change?
 - 35%
 - 39.4%
 - 61%
 - 65.1%
- A gym's membership in 2010 was 8,700. Now, it is 6,400. Which expression equals the percent of change?
 - $6,400 \div 8,700$
 - $8,700 - 6,400$
 - $(8,700 - 6,400) \div 8,700$
 - $(8,700 - 6,400) \div 6,400$
- A store marks up sporting goods 27%. Which expression equals the retail price of an item with an original cost of p dollars?
 - $p \times 0.27$
 - $p \div 0.27$
 - $p \times 0.73$
 - $p \times 1.27$
- A toy store marks down every toy by 15% in January. How much does a toy cost during January? Use p for the price in December.
 - $0.15p$
 - $0.75p$
 - $0.85p$
 - $1.15p$
- A market buys mixed nuts at \$12.50 per pound. They want to make a 22% profit. What should they charge for the retail price?
 - \$2.75/lb
 - \$9.75/lb
 - \$15.25/lb
 - \$34.50/lb
- A student spends \$48 on school supplies at a store where the sales tax is 7%. What is the total cost of the supplies?
 - \$3.36
 - \$33.60
 - \$51.36
 - \$55.00
- What is the annual interest for a principal of \$3,500 at a simple annual interest rate of 2.3%?
 - \$80.50
 - \$805.00
 - \$3,580.50
 - \$4,305.00
- Which expression does this number line show?
 
 - $-0.5 - 1.5$
 - $1.5 - (-0.5)$
 - $1.5 - 2$
 - $1.5 + 2$

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Proportions and Percent

11. What is one way to find the total cost of a jacket for \$55.80 with a sales tax of 2.7%?

12. What is another way to find the total cost of a jacket for \$55.80 with a sales tax of 2.7%?

13. The price of a \$250 coat increased 7% last year. The coat is now on sale for one-half off. What is the sale price?

Use the table for 14–15.

Population Changes

Town	2000	2010
Lakeside	51,342	45,863
Centerville	37,065	26,102
Riverview	41,726	63,017

14. Find the percent of change to the nearest tenth of a percent for Centerville.

15. Which town had the greatest percent of change? What was the percent?

16. A clerk is marking up merchandise 34%. The original price of an item is \$455. What will be the retail price?

17. At the end of the summer, a store marks down all the outdoor furniture 18%. A family bought 4 chairs in June at \$35 each, then 2 more chairs when they went on sale. How much did all 6 chairs cost?

18. A shopper paid \$51.93 including tax for an item marked \$48.99. What would she pay for another item marked \$75?

19. An amount of \$8,000 is invested at a simple interest rate of 1.5%. What is the total amount after 3 years?

20. A restaurant bill before tax is \$15.50. If the sales tax is 8% and a 15% tip is added, what is the total cost of the meal?

21. Find k , the constant of proportionality, for the data in this table. Then write an equation for the relationship.

x	10	15	20	25
y	65	97.5	130	162.5
