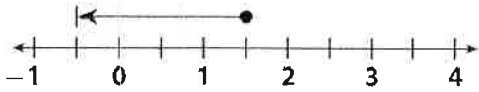


Proportions and Percent

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?
 - $\$2.75/\text{lb}$
 - $\$9.75/\text{lb}$
 - $\$15.25/\text{lb}$
 - $\$34.50/\text{lb}$
- 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?
 
 - $-0.5 - 1.5$
 - $1.5 - (-0.5)$
 - $1.5 - 2$
 - $1.5 + 2$

MODULE
5

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%?

sample

Find 2.7% of \$55.80 +
add it to \$55.80

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

sample

Mult \$55.80 by 1.027

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?

\$133.75

Use the table for 14–15.

Population Changes

Town	2000	2010
Lakeside	51,342	45,863
Centerville	37,065	26,102
Riverview	41,725	63,017

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

29.6% D

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

Riverview had
increase of 51%

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

\$609.70

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?

\$197.40

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

\$79.50

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

\$8,360

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?

\$19.07

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

$k = 6.5$ $y = 6.5x$