

Money Rate Moves

Use unit rates and percentages to make business decisions.

HIGH SCHOOL • MA.912.FL.1.2

MA.912.FL.1.2 "Extend previous knowledge of ratios and proportional relationships to solve real-world problems involving money and business."

NAME _____

DATE _____

FIND THE CONSTANT RATE

A proportional money relationship has the same price per item, pay per hour, or percent rate each time. Divide to find the amount for 1 unit, then multiply by the new number of units. For a percent, change the percent to a decimal and multiply by the total amount.

WORKED EXAMPLE

A booth buys 13 tote bags for \$35.10. At the same price per bag, what is the cost of 4 tote bags?

1. $\$35.10 / 13 = \2.70 per tote bag.

2. $\$2.70 \times 4 = \10.80 .

Answer: \$10.80

PRACTICE 6 problems

- 1** A café pays \$9.00 for 6 bags of coffee beans. At the same rate, what will 14 bags cost?

ANSWER _____

- 2** A student earns \$45.00 for 15 hours of work. What is the hourly pay rate?

ANSWER _____

- 3** A sales representative earns \$18.00 commission on a \$120.00 sale. At the same commission rate, how much commission is earned on a \$300.00 sale?

ANSWER _____

- 4** A \$32.00 hoodie is marked 25% off. What is the amount of the discount?

ANSWER _____

- 5** Sales tax is \$2.40 on a \$30.00 purchase. At the same tax rate, what is the sales tax on a \$75.00 purchase?

ANSWER _____

- 6** A craft business pays \$52.50 for 21 bracelets. What is the cost per bracelet?

ANSWER _____

APPLY IT Show your work

- 1** The school esports club wants to order hoodies for its members. A printer charges \$96.00 for 12 hoodies, and the club has a budget of \$200.00. If the price stays proportional, how many hoodies can the club order if it spends the entire budget?

WORK SPACE

ANSWER _____

- 2** Jordan earns \$54.00 for 6 hours of tutoring. Jordan wants to earn \$126.00 for concert tickets. If the hourly pay stays the same, how many hours must Jordan tutor?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

An online merch store sells phone cases for \$20.00 each. The selling platform keeps 15% of the total sales. How many cases must the store sell to have \$340.00 after platform fees?

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A café pays \$9.00 for 6 bags of coffee beans. At the same rate, what will 14 bags cost?	\$21.00
2	A student earns \$45.00 for 15 hours of work. What is the hourly pay rate?	\$3.00 per hour
3	A sales representative earns \$18.00 commission on a \$120.00 sale. At the same commission rate, how much commission is earned on a \$300.00 sale?	\$45.00
4	A \$32.00 hoodie is marked 25% off. What is the amount of the discount?	\$8.00
5	Sales tax is \$2.40 on a \$30.00 purchase. At the same tax rate, what is the sales tax on a \$75.00 purchase?	\$6.00
6	A craft business pays \$52.50 for 21 bracelets. What is the cost per bracelet?	\$2.50 per bracelet

PART 2 • APPLY IT

1. **25 hoodies** Divide \$96.00 by 12 to find a cost of \$8.00 per hoodie. Then divide \$200.00 by \$8.00 to get 25 hoodies.
2. **14 hours** Divide \$54.00 by 6 to find an hourly rate of \$9.00. Divide \$126.00 by \$9.00 to get 14 hours.

CHALLENGE**20 cases**

Accept equivalent unit-rate notation, such as \$3/hour. Money answers should include dollar signs and appropriate cents when needed.