

MODULE
3**Rational Numbers****Module Quiz: B**

- What is the product of -1.24 and 4.25 ?
A -5.27 C 3.01
B -3.01 D 5.49
- Ben walked $\frac{2}{5}$ mile. Tonya walked $\frac{1}{4}$ mile. What fraction of a mile did they walk in total?
A $\frac{1}{10}$ mi C $\frac{7}{20}$ mi
B $\frac{1}{3}$ mi D $\frac{13}{20}$ mi
- What is $6\frac{3}{8}$ written as a decimal?
A 5.625 C 6.38
B 6.375 D 8.6
- Tameka built $\frac{1}{2}$ of a shed on Monday and $\frac{2}{5}$ of the shed on Tuesday. Tameka finished building the shed on Wednesday. What fraction of the shed did she build on Wednesday?
A $\frac{1}{10}$ C $\frac{3}{7}$
B $\frac{2}{5}$ D $\frac{9}{10}$
- A box of cereal contains 23.4 ounces. It costs $\$5.49$. What is the cost, to the nearest cent, of the cereal per ounce?
A $\$0.23$ C $\$4.26$
B $\$2.35$ D $\$28.89$
- Syeda had $\$80.45$ in her bank account on Monday. She deposited $\$20.50$ on Tuesday. She then withdrew $\$37.25$ on Wednesday. How much did Syeda have left in her account on Thursday?
A $\$63.70$ C $\$97.20$
B $\$80.45$ D $\$138.20$
- A ribbon is $12\frac{3}{8}$ feet long. Into how many $\frac{3}{4}$ -foot pieces can it be cut?
A 9 C 15
B 10 D 16
- Alexander purchased a computer on sale. The original price was $\$1,200$. The sale price was $\frac{5}{6}$ of the original price. How much did Alexander pay for the computer?
A $\$900$ C $\$1,144$
B $\$1,000$ D $\$1,440$
- On a certain day the temperature in New York City was -4°C and the temperature in Austin was 10°C . How many degrees lower was the temperature in New York City?
A 6°C C 10°C
B 7°C D 14°C
- A deep-sea diver descended from a rock that is 45 feet below sea level to a coral reef that is 88 feet below sea level. How far did the diver descend from the rock to the coral reef?
A 43 feet C 88 feet
B 67 feet D 123 feet

MODULE
3

Rational Numbers

11. Jared bought a cell phone for \$42. Juanita spent $1\frac{1}{2}$ times as much. How much did she spend?

12. What is the value of $-\frac{2}{5} \div \frac{3}{4}$?

13. What is the product of -2.5 and 8.77 ?

14. Jeunesse earned \$725 dollars by working 5 days in a week. What is the average amount that she earned per day?

15. Ben paid \$900 for a sofa. The price of the sofa Juana purchased was $\frac{2}{3}$ the price that Ben paid. How much did Juana pay for her sofa?

16. Anna made 400 quarts of lemonade. She poured the lemonade into containers. Each container holds $\frac{4}{7}$ of a quart. How many containers did Anna use?

17. Sanin went to the store to buy groceries. He bought a box of cereal for \$5.29, a gallon of milk for \$2.49, and a quart of juice for \$3.79. He paid the cashier with a \$20 bill. How much change did Sanin receive?

18. What is the value of $-6 + -3 - (-18)$?

19. Mara finished $\frac{1}{5}$ of her assignment on Saturday and $\frac{3}{8}$ of her assignment on Sunday. What fraction of her assignment did she complete on Saturday and Sunday?

20. Jean-Claude equally shared a box of chocolates with two of his friends. The box weighed $\frac{9}{5}$ pounds. How many pounds of chocolate did each person receive?

21. The Smith family took a car trip. They traveled $\frac{1}{2}$ the distance from San Antonio to Austin on Monday and $\frac{3}{12}$ the distance on Tuesday. What fraction of the distance between San Antonio and Austin did the Smith family travel on Monday and Tuesday?

22. Amory ate $\frac{1}{4}$ of a box of cereal. Blaine ate $\frac{2}{9}$ of the same box. What fraction of the box of cereal did they eat together?

MODULE
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Rates and Proportionality

Module Quiz: B

1. A machine paints 340 toy boats in 45 minutes. Which expression equals the unit rate per hour?

- A $\frac{3}{4}$ C $\frac{340}{3}$
 B $\frac{45}{340}$ D $\frac{340}{45}$

2. Which speed is the fastest?

- A 18 feet in 20 minutes
 B 90 feet in 2.5 hours
 C 20 yards in 1.5 hours
 D $3\frac{2}{3}$ yards in 15 minutes

3. What is the unit price for a piece of cheese if 1.24 pounds costs \$11.25?

- A \$0.11 per lb
 B \$9.07 per lb
 C \$12.49 per lb
 D \$13.95 per lb

4. Which table shows a constant rate of change?

A

Days	6	12	18
Earnings (\$)	225	450	750

B

Days	6	12	18
Earnings (\$)	225	500	750

C

Days	6	12	20
Earnings (\$)	225	450	675

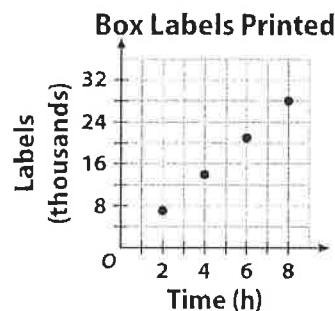
D

Days	6	12	20
Earnings (\$)	225	450	750

5. A student spends the same amount each week for bus fare. In 5 weeks, he spends \$115. Which equation shows this relationship? Let x = number of weeks.

- A $y = 3.22x$
 B $y = 5x$
 C $y = 23x$
 D $y = 115x$

Use the graph for 6–7.



6. Draw a line through the points. Why does this line show a proportional relationship?

- A It is not curved.
 B It is a vertical line.
 C It connects all the dots.
 D It goes through the origin.

7. What is the constant of proportionality for the relationship on the graph?

- A 3.5 C 8
 B 7 D 28

8. If a is an integer, when is $\frac{a}{b}$ always equal to an integer?

- A $b = 0$ C $b > 1$
 B $b < 1$ D $b = 1$ or -1

MODULE
4 **Rates and Proportionality**

9. Complete the table for an object that goes $\frac{3}{4}$ miles in 6 minutes.

Distance (mi)	$\frac{3}{4}$	$1\frac{1}{2}$	$2\frac{1}{4}$
Time (h)	$\frac{1}{10}$		

10. If a person bikes 2.4 miles in 10 minutes, how far can he bike in 1.5 hours?

11. Explain how to simplify this complex fraction. Interpret the meaning of the result.

$$\frac{330 \text{ pages}}{\frac{3}{4} \text{ hour}}$$

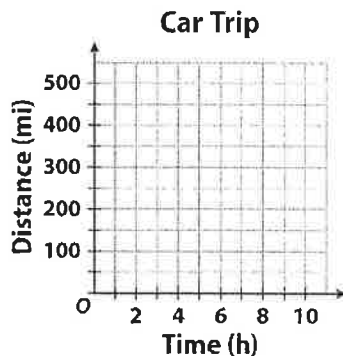
12. Find k , the constant of proportionality, for the data in this table. Then write an equation for the relationship.

x	25	50	75	100
y	160	320	480	640

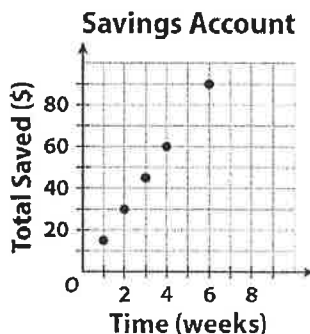
13. Create a table that shows a proportional relationship. Do not use an integer for the constant of proportionality.

Number of Cookies	6	12	20
Cost (\$)			

14. A car traveled at a constant speed of 45 miles per hour. Make a graph to show how the distance traveled in miles is related to the time in hours.



Use the graph for 15–16.



15. What equation shows the line through the data points on the graph?

16. Write an equation for someone saving more money per week. Add a line to the graph for this equation.

17. An object travels $\frac{4}{5}$ miles in one-half hour. What is its speed?
