

MODULE
3

Rational Numbers

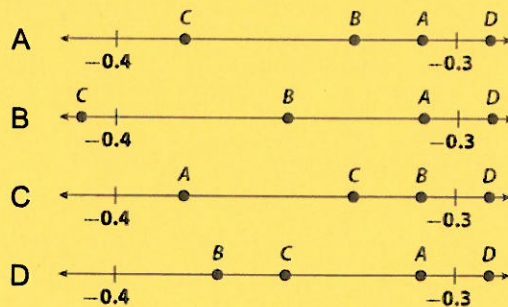
Module Quiz: B

- Dale has a special deck of cards. Each card has a different rational number on it. The cards are 0.25 , $\frac{4}{5}$, $\frac{2}{9}$, 0.48 , and $\frac{8}{11}$. How many cards have a value that is greater than $\frac{1}{2}$?
 A none of these C two
 B one D three
- Which set of rational numbers is correctly ordered from least to greatest?
 A $-0.48, -0.47, -0.46, -0.45$
 B $-0.48, -0.46, -0.47, -0.45$
 C $-0.45, -0.47, -0.48, -0.46$
 D $-0.45, -0.46, -0.47, -0.48$

3.

Point	Coordinate
A	-0.31
B	-0.33
C	-0.38
D	-0.29

Which number line shows the correct placement of the points in the table above?



- Kendra placed the numbers $-\frac{3}{8}$, 0.27 , -0.3 , and $\frac{4}{7}$ on the number line. Which of the numbers is furthest from zero?
 A $-\frac{3}{8}$ C 0.27
 B -0.3 D $\frac{4}{7}$
- Mandy divided a 12-pound bag of oranges into 5 equal piles. Which rational number represents the weight of the oranges in each pile?
 A $\frac{1}{5}$ C $2\frac{1}{6}$
 B $\frac{5}{12}$ D $2\frac{2}{5}$
- Which statement about rational numbers is **not** correct?
 A All rational numbers are also integers.
 B Zero is a rational number.
 C All integers also rational numbers.
 D All rational numbers can be written in the form $\frac{a}{b}$.

- Philip wrote the numbers $3\frac{1}{5}$, $3\frac{1}{7}$, $5\frac{1}{8}$, and $1\frac{5}{6}$ in the form $\frac{a}{b}$. What is the greatest numerator that Philip wrote?
 A 11 C 22
 B 16 D 41

MODULE
3

Rational Numbers

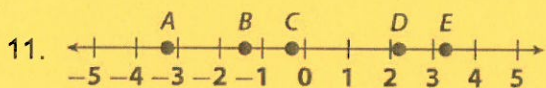
8. Dori claims that 3.52 is not a rational number because it is not written as a ratio of integers. Is she correct? Explain why or why not.

9. **Times in 100-meter Dash**

Runner	Time (s)
Rebekah	12.45
Kori	12.54
Lin	12.48
Shelly	12.44

Four runners ran the 100-meter dash. The times are shown in the table above. Which runner had the fastest time?

10. Write the numbers -2.1 , $-1\frac{5}{6}$, $-1\frac{2}{3}$, and -2.2 in the form $\frac{a}{b}$, from greatest to least.



Which lettered points in the number line above have absolute value less than 3?

12. If x is a rational number and y is the opposite of x , why do x and y have the same absolute value?

13. **Daily Temperatures in Chicago**

Day	Temperature
Monday	-1.2°C
Tuesday	-2.0°C
Wednesday	-1.8°C
Thursday	-1.4°C

The table shows the daily temperatures for a four-day period in Chicago. On which day or days was the temperature lower than -1.5°C ?

14. Explain how to write the rational number 3.21 in the form $\frac{a}{b}$.

15. Kevin compared the absolute values of $-2\frac{1}{8}$, -2.25 , $2\frac{3}{8}$, -2.29 , and $2\frac{4}{11}$. Which number has the greatest absolute value?
