

B Quiz #32**Lessons 125–128**

1. Three coins are white on one side and black on the other. If Floyd tosses them, what is the probability that all will land on white? Create a tree diagram to show the sample space. Find $P(\text{BWB})$.
2. Divide. Write the quotient in simplest form. $-2\frac{1}{3} \div -1\frac{1}{9}$
3. Find the values of a and b .
4. Kenny earns \$22.00 per hour now. He'll get a raise of 9% per hour, and after that, he will work 40 hours per week. Kenny estimates that his weekly earnings will be about \$960. Is this reasonable? Explain.
5. Fernando worked for a travel agency. He earned a 15% commission on every beach vacation he sold. Today, he sold 2 beach vacations at \$3,500 each. How much commission did Fernando earn?
6. Each solid has a rectangular base and is sliced by a plane. Choose the slice that would not form a rectangular cross section.
7. Which of these represents 1 unit away from -12 in the negative direction on a number line?
8. Sarah and Blake each bought a copy of the same book. Blake also bought a \$4 magazine. Write an expression to represent the amount they spent together. Let b equal the price of a book.
9. An equilateral triangle has a perimeter of $6v + 9$. Find the perimeter if $v = 4$ m.
10. In a regular deck, there are 52 cards with 13 cards in each suit (4 suits each of hearts, clubs, diamonds, and spades). What is the probability of randomly choosing a club from a regular deck of cards? What is the probability of choosing a spade? Express each probability as a fraction.
11. Find the volume of the prism.
12. Solve for x . Graph the solution on a number line. $2x - 10 \leq -6$