

# Chapter 15

## Test Study Guide

Find sale price or final price

15. Original price: \$0.75  
Discount: 20%  
Sale price: ?

$$\textcircled{1} .75 \cdot .20 = .15$$

$$\textcircled{2} \begin{array}{r} .75 \\ - .15 \\ \hline .60 \end{array}$$

17. Original price: \$24.50  
Tax: 18%  
Final price: ?

$$\textcircled{1} 24.5 \cdot .18 = 4.41$$

$$\textcircled{2} \begin{array}{r} 24.5 \\ + 4.41 \\ \hline 28.91 \end{array}$$

16. Original price: 295  
Discount: 30%  
Sale price: ?

$$\textcircled{1} 295 \cdot .3 = 88.5$$

$$\textcircled{2} \begin{array}{r} 295 \\ - 88.5 \\ \hline 206.5 \end{array}$$

18. Original price: \$145  
Tax: 1.5%  
Final price: ?

$$\textcircled{1} 145 \cdot .015 = 2.175$$

$$\textcircled{2} \begin{array}{r} 145 \\ + 2.18 \\ \hline 147.18 \end{array}$$

An account earns annual simple interest. Find the interest earned, principal, interest rate, or time.

19. Interest earned: ?  
Principal: \$800  
Interest rate: 6.5%  
Time: 2 years

$$I = prt$$

$$I = 800 \cdot .065 \cdot 2$$

$$\textcircled{I = 104}$$

20. Interest earned: \$7.50  
Principal: ?  
Interest rate: 12%  
Time: 3 months

$$P = \frac{I}{rt}$$

$$P = \frac{7.50}{.12 \cdot .25}$$

$$\frac{3}{12} = \frac{1}{4} = .25$$

$$\textcircled{P = 250}$$

21. Interest earned: \$235.50  
Principal: \$7850  
Interest rate: 2%  
Time: ?

$$t = \frac{I}{Pr}$$

$$t = \frac{235.50}{7850 \cdot .02}$$

$$\textcircled{t = 1.5 \text{ yrs}}$$

22. Interest earned: \$837  
Principal: \$3100  
Interest rate: ?  
Time: 6 years

$$r = \frac{I}{Pt}$$

$$r = \frac{837}{3100 \cdot 6}$$

$$\textcircled{r = 4.5\%}$$

An account earns annual simple interest. Find the balance of the account.

23. \$1400 at 1.25% for 3 years

$$\textcircled{1} 1400 \cdot .0125 \cdot 3 = 52.5$$

$$\textcircled{2} 1400 + 52.5 = \textcircled{1452.50}$$

24. \$5000 at 6% for 9 months  $\rightarrow \frac{9}{12} = \frac{3}{4} = .75$

$$\textcircled{1} 5000 \cdot .06 \cdot .75 = 225$$

$$\textcircled{2} 5000 + 225 = \textcircled{5225}$$

25. The gas tank of your car is 40% full. There are 8 gallons of gas in the tank. What is the capacity of the gas tank?

$$\frac{40}{100} = \frac{8}{x}$$

$$800 = 40x$$

$$\textcircled{20 = x}$$

# Big Ideas Math Red Practice Journal Answers

**Joacim Rocklöv**



**Big Ideas Math Red Practice Journal Answers:**

## Decoding **Big Ideas Math Red Practice Journal Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Big Ideas Math Red Practice Journal Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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web the standard form of a quadratic equation is  $ax^2 + bx + c = 0$  where  $a$ ,  $b$  and  $c$  are real numbers and  $a \neq 0$  the term  $b^2 - 4ac$  is known as the discriminant of a quadratic equation it tells the nature of the roots if the discriminant is greater than 0 the roots are real and different if the discriminant is equal to 0 the roots are real and equal if the

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web the quadratic formula in terms of the discriminant is  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  example find the discriminant of the quadratic equation  $2x^2 - 3x + 8 = 0$  comparing the equation with  $ax^2 + bx + c = 0$  we get  $a = 2$ ,  $b = -3$  and  $c = 8$  so the discriminant is  $\Delta$  or  $b^2 - 4ac = (-3)^2 - 4(2)(8) = 9 - 64 = -55$  discriminant of cubic equation

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web find the value of the discriminant of each quadratic equation 1.  $6x^2 - 2x + 3 = 0$  2.  $2x^2 - x + 1 = 0$  3.  $4m^2 - 4m + 5 = 0$  4.  $9b^2 - 4b + 2 = 0$  5.  $r^2 - 5r + 2 = 0$  6.  $2p^2 - 5p + 4 = 0$  7. find the discriminant of each quadratic equation then state the number of real and imaginary solutions

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web mar 1 2022 the quadratic formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  if the discriminant is positive this means we are taking the square root of a positive number we will have a positive and negative real solution this equation will have two real solutions or  $x$  intercepts