

# Ace Questions Investigation 2 Answer Key

**Answers | Investigation 4 1 they will get 144, but the unit will not 1 16. in.,  $\square = 2$   
1 w = 1 2 2 in., h = in. volume = 45 cubic  
1 2-inches volume = 5 8 5 cubic inches  
surface area = 2 9 in.<sup>2</sup> 17.  $\square =$  in., w = h  
1 2 3 in. volume = 175 cubic 1 2-inches  
volume = 7 8 21 cubic inches surface  
area = 1 2 47 in.<sup>2</sup> Note: There are eight  
cubes measuring**

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**Answers | Investigation 3**

**A C E Answers | Investigation 4**

**A C E Answers | Investigation 1**

**Ace Questions Investigation 2 Answer**

**Answers | Investigation 2 Applications 1.**

**a.  $I = 12n + 150$  Eb.  $= 250 + 4.25n + c.$**

**675; if you substitute 100 T-shirts into  
the income equation, you will get  $12(100)$   
 $+ 150 = 1,350$  in income, and**

## **Answers | Investigation 2**

**(7.RP.A.1) For example, if a person walks  $\frac{1}{2}$  mile in each  $\frac{1}{4}$  hour, compute the unit rate as the complex fraction  $\frac{1/2}{1/4}$  miles per hour, equivalently 2 miles per hour. Rate Problems with Fractions**

## **7th Math Unit 4 Comparing and Scaling | Ryan Bell**

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## **ACE Answers - Randy Hudson - Google Sites**

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## **A C E Answers | Investigation 2 - 6th Grade Math**

## Answers | Investigation 1 Extensions 72.

Answers will vary. Possible answers

include: 2 5 73. Answers will vary.

Possible answers include: costs \$40, for a total of \$80. 2 7 74. It is always possible

to find a fraction between any two

fractions on the 2 number line. One way to know this is that we can rewrite each given fraction

## A C E Answers | Investigation 1

Answers | Investigation 3 b.  $x(x - 3)$

$x(x - 3) + 3(x - 3) = x^2 - 9$  3(x - 3) 3 3 c.  $xx$

$2x^2 + 5x + 3$  1 3  $xx$  3  $x$   $x^2$   $x^2$  3x There are

other area models that Note: use  $2x + 3$

and  $x + 1$ . 32. a.  $x^2 + 8x + 15 = 0$   $(x + 5)(x + 3) = 0$

$x + 5 = 0$  or  $x + 3 = 0$   $x = -5$  or  $x = -3$  xb.  $2x^2 - 9 = 0$

$(x - 3)(x + 3) = 0$  or  $x^2 - 9 = 0$   $x^2 = 9$

$x = 3$  or  $x = -3$  2c.  $x^2 + 5x + 3 = 0$  2  $x^2 + 2x + 3 = 0$

2  $x(x + 1) + 3 = 0$   $(2x + 3)(x + 1) = 0$   $x = -3$

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**6cmp06te HL2.qxd 4/29/05 4:14 PM Page 53 Answers**

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**Answers | Investigation 2 - 126 Math Answers | Investigation 4 26 slope = The lines are perpendicular. 1. a.  $x = -4, 0, 4$  y 4 2 0 b. have an equation of the form c.**

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Answers | Investigation 2 Extensions  
contested in an election, polled voters  
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likely to actually vote. Also, it is known  
that 39. Possible answer: Pre-election  
polls can be inaccurate as a result of a  
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**A C E Answers | Investigation 2  
Answers | Investigation 3 d. There are 6**

coins in each pouch;  $x = 6$ . e. There are 2 coins in each pouch;  $x = 2$ . divide each side 10.  $y = 5 + 0.50x$ . Here  $x$  stands for the number of math questions Gilberto gets right,  $y$  stands for the total amount of money his grandfather gives him, 5 stands for the birthday money Gilberto

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**Answers | Investigation 1 Applications 1.**

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### **Answers | Investigation 1**

**What Do You Expect?: Homework**

**Examples from ACE Investigation 1: A**

**First Look at Chance, ACE #3, #4, #9,**

**#31 Investigation 2: Experimental and**

**Theoretical Probability, ACE #6, #12, #9,**

**#37 Investigation 3: Making Decisions with Probability, ACE #3, #4**

**Investigation 4: Analyzing Compound**

**Events Using an Area Model, ACE #16,**

**#18 Investigation 5: Binomial Outcomes, ACE #3**

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7th Math Unit 4 Comparing and Scaling | Ryan  
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***Gilberto***

What Do You Expect?: Homework Examples from ACE



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