

## Investigation 3 Ace Answers

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Answers | Investigation 3 Applications 1. a. 25 shirts would cost \$70. You could use a table by trying to find the cost C for every value of n. Thus, the table would reflect values for  $n = 1, 2, 3, \dots, 25$ . You could use the graph by finding graph by finding the coordinate pairs.

### Answers | Investigation 3

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### Answers | Investigation 3 - 126 Math

Answers | Investigation 5 Applications 1. 22 ft. Because  $252 - 152 = 400$ , the tallest tree that can be braced is 400 ft, or 20 ft tall at the point of attachment. Adding 2 ft gives a total height of 22 ft. (Note: You can point out to students that this is a  $3 - 4 - 5$

### Answers | Investigation 3

Answers | Investigation 3 Ce.  $= 650 + 30(N - 10)$   $C = 650 + 30N - 300$   $C = 30N + 350$  The 30 means that each tile costs 30 dollars and the 290 is the start-up cost. 9. 80 boxes; students may graph the two equations and find the x-coordinate of the intersection point. Or they may make

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Answers | Investigations 3 Connections 35. The commissions are the same. Suppose the starting price is P. Then the markup in the first situation will be  $0.25P$ . The salesperson gets 10, of the markup,

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Answers | Investigation 3 Applications 1. a. No, they are not similar. One of the small figures is a square, so it does not have the same shape as the original rectangle, which is not a square. Yes, they are similar because their b. corresponding interior angles are congruent. Also, each side of the smaller quadrilateral increases by the

### A C E Answers | Investigation 4 Applications

Answers | Investigation 3 Extensions 39. a.  $180^\circ$  Both pairs of angles are on opposite b. sides of a transversal between parallel lines. The angles 1, 2, and 3 have the c. same measures as angles 6, 2, and 5 respectively, and angles 6, 2, and 5 are the angles of a triangle. Since the sum of the measures of angles 1, 2, and 3

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-5, 3, 2, 2, 3, 5 Answers | Investigation 3 Connections 37. a. Answers will vary based on students' estimates of the thermometer reading. Sample: There are 4 h between noon and 4:00 p.m. In 4 h, the temperature changes 4 #  $(-2) = -8^\circ \text{F}$ , so the temperature at 4:00 p.m. was  $69 + (-8) = 61^\circ \text{F}$ . b. Answers will vary based on students'

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Answers | Investigation 3 Extensions 44. a. Possible answer: c It may take several cuttings, but every parallelogram can be rearranged to make a rectangle with the same base and height as the original. b. Possible answer: 2 Every triangle can be put together with a copy of itself to make a parallelogram. The area of the III

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4.1: I can calculate the unit rate for real life situations by breaking down the ratio (fractions) by dividing to solve the problem to find the relationship between two units.

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Answers | Investigation 3 are 15, 30, and 45. Only 30 has 8 factors 44. A number that is a multiple of 3 (Clue 2) and of 5 (Clue 1) must be a multiple of 15. The multiples of 15 that are less than 50

### Answers | Investigation 3

Answers | Investigation 3 b. To solve this equation by graphing, graph the lines  $y = 4x - 9$  and  $y = -7x + 13$ . At the point where the graphs cross, the x-coordinate is the solution. To solve using a table, create a table for the left side and right side and look for an ordered pair (x, y) that shows up on both tables. The

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ACE ANSWERS 3 Investigation 3 Quadratic Patterns of Change 109 8cmp06te\_FF3.qxd 2/7/06 2:52 PM Page 109. dimensions. And the dimensions that you picked for the first two rectangles are the dimensions of the original rectangle. These two dimensions are the factors in the factored form of  $3x^2 + 14x + 8$ .

### ACE Answers - Randy Hudson - Google Sites

Answers | Investigation 3 31. The areas of the hexagons are 3.89, a. 6.92, and 10.83 square units (6 times the areas of the triangles in Exercise 30). b. When the areas of the regular

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Answers | Investigation 3 44. a. Subdivide a rectangle into four parts. Label the area of one of the smaller rectangles as  $3 \times 2$  and the one diagonal to it as  $8 \cdot 3 \times 2 \cdot 8$  Use these areas to find the dimensions

### Answers | Investigation 3

Answers | Investigation 3 Applications 1. a) The range is \$1.75. b) Each server receives \$15.65. c) Since Yanna's amount is higher than the mean, they will each receive more. If Yanna receives the mean (\$15.65), the people were distributed so that

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3 14. 5 99 15. or 45 99, 5 11 16. 45 999, or 15 333 17. or 12 99, 334 33 18. 9 9 3, or 4 19. There is an infinite number of answers. Possible answers: The decimal is between 1 10 and 2 10, between 10 100 and 11 100, and between 101 1,000 and 102. 20. There is an infinite number of answers. Possible answer: One decimal answer is 6 ...

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Answers | Investigation 3 pound 14. a. 1 16 pound b. 1 16 c. 3 12 pound, or 1 4 pound d. 2 25 pound e. 3 4 pound 15. a. 1 3 1 gallons b.  $28 \times 43 = 1123 = 1337$  miles 16. D 17. 4 15; possible diagram: this diagram is made by renaming 4 5 as 12 15. Since there are 12 fifteenths, you can divide by 3, or group the fifteenths into 3 groups. 31 ...

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