Algebra 1 week 5 Block W-up

Skill 1:

Solve, showing ALL steps

1.
$$-3(y-7)+3=3y-(y+1)$$

2.
$$4(x+2) + 7x = 5 - (4-6x) + 5x$$

Skill 2:

Write and solve the proportion:

 The boys water polo team swims approximately 4100 meters during each game. There are about 1607 meters in a mile. How many miles do they swim during a game? Round to the nearest tenth.

Percent change:

4. Alice saw a flier that said the original price of some jeans was \$64. The sale price was \$56.32. The flier was ripped so how could she figure out what % the jeans were marked down?

P 153/Chapter 2 Review Classwork Block week 5

Name_____per___

Solve and CHECK 11. $\frac{3}{4} - 3 = -4$ Solve and CHECK 13. $-\frac{3d}{4} + 5 = 11$ Solve, then label as no solution or identity if appropriate. 23. Online concert tickets cost \$37 each, plus a service charge of \$8.50 per ticket. The Website also charge of \$8.50 per ticket. The Website also charges of \$14.99 for the purchase. You paid \$5.42.49. How many tickets did you buy? 29. A train makes a trip at 65 mph. A plane traveling 130 mph makes the same trip in 3 fewer hours. Write and solve an equation to find the distance of the trip. Solve, round to nearest tenth, if needed. 34. What is the width of a rectangle with length 5.5cm and area 220 cm ² ? Solve, round to nearest tenth, if needed. 35. A triangle has height 15 in. and area of 120 in ² . What is the length of its base? Convert the given amount to the given unit. 40. 2.25 mi; yd application and year?	r 135/Cliaptel 2 Neview Classwork	Block week 5 Name	
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A1 w5d3 Review Chap 2.notebook

43. If a baseball travels 90 mph, how many seconds does it take to travel 60 ft?	Solve the proportion. $44. \frac{3}{7} = \frac{9}{x}$	Solve the proportion. 48. $\frac{b+3}{7} = \frac{b-3}{6}$
50. An airplane has a wingspan of 25 ft and a length of 20 ft. You are designing a model of the airplane with a wingspan of 15 in. What will the length of your model be?	52. What percent of 37 is 111?	53. What is 72% of 150?
54. 60% of what number is 102?	55. A gardener expects that 75% of the seeds she plants will produce plants. She wants 45 plants. How many seeds should she plant?	60. Tell whether each percent change is an increase or a decrease. Then find the percent change. Round to the nearest percent. Original amount: 873 New amount: 781
62. In 1970, the US population was about 205 million people. In 2007, it was about 301 million. What was the percent increase?	64. This morning the temperature was 38°F. This afternoon it is 57°F. Did the temperature increase by 50%? Explain.	Extra space to explain #64:
Scrambled answers: 47, 21,11, -4, 40,3	300,11,identity,~0.45,108,-8, x=-t-r,16,~6,	39,60,-15/2,390,12,5,170,yes,3960

Time for assessments:

Wk 5 Quiz

Skill Test 2

HW: p. 157 (7,8,9,10,14,18)

Solve each equation. Check your answer.

3.
$$3w + 2 = w - 4$$

4.
$$\frac{1}{4}(k-1)=7$$

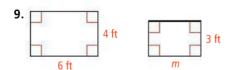
5.
$$6y = 12.8$$

6.
$$\frac{5n+1}{8} = \frac{3n-5}{4}$$

7. Bicycling You are riding your bicycle to prepare for a race. It takes you 12 min to go 2.5 mi. What was your speed in miles per hour?

The figures in each pair are similar. Find the missing length.

8. 8 cm 5 cm



10. Shadows In the late afternoon, a 3.5-ft child casts a 60-in. shadow. The child is next to a telephone pole that casts a 50-ft shadow, forming similar triangles. How tall is the telephone pole?

Define a variable and write an equation to model each situation. Then solve.

- **13. Farming** You have 100 ft of fencing to build a circular sheep pen.
 - **a.** What is the diameter of the largest pen you can build? Use 3.14 for π .
 - **b.** What is the area of the largest pen you can build?
- **14.** Maps The scale on a map is 1 in.: 25 mi. You measure 6.5 in. between two towns. What is the actual distance?
- **15. Birds** In a bird sanctuary, 30% of the birds are hummingbirds. If there are about 350 birds in the sanctuary at any given time, how many are hummingbirds?

Do you UNDERSTAND?

- 16. Reasoning Explain which is more accurate: measuring to the nearest millimeter or to the nearest eighth of an inch.
- (a) 17. Writing A 30-pack of blank CDs costs \$9.50. A 50-pack of blank CDs costs \$13. How can you tell which is the better buy?
- 18. Error Analysis Average attendance at a school's basketball games increased from 1000 to 1500 last year. One student said that represented a 150% increase. Explain the student's error. What was the actual percent increase?