Name _____

Score _____

Cumulative Test 14B

Math Course 2

Also take ***Power-Up Test 14***

1. (46) Malcomb coasted 32 miles from Moonridge to Mentone and then pedaled back hard. If the round trip took 4 hours, what was Malcomb's average speed in miles per hour?

2. (66) The ratio of dogs to cats in the neighborhood was 2 to 3. If a total of 30 dogs and cats were in the neighborhood, how many cats were there?

3. (65) Using a tape measure, Melanie found that the circumference of the great redwood was 600 cm. She estimated that its diameter was 200 cm. Was Melanie's estimate a little too large or a little too small? Why?

4. (54) Parsnips were priced at 3 pounds for $1.23.

a. What was the price per pound?

b. How much would 10 pounds of parsnips cost?

5. (35) If the product of four tenths and six tenths is subtracted from the sum of four tenths and six tenths, what is the difference?

6. (22, 48) Diagram this statement. Then answer the questions that follow.

Two fifths of the baker's 60 cookies were oatmeal.

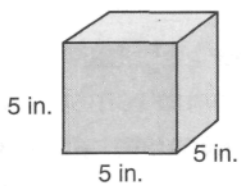
a. How many of the baker's cookies were oatmeal?

b. What percent of the baker's cookies were not oatmeal?

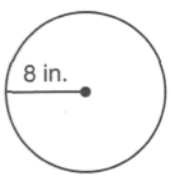
7. (67, 70)

a. A cube has how many edges?

b. What is the volume of this cube?



8. (65) Find the circumference of each circle.



a. Leave π as π.

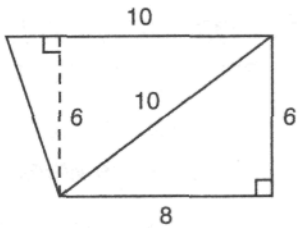
b. Use 3.14 for π.

9. (69) Write each of these numbers in scientific notation:

a. 12×10^{-6}

b. 12×10^{6}

Refer to the figure below for problems 10 and 11. Dimensions are in millimeters.



10. (37, 62) What is the area of the right triangle?

11. (37, 62) What is the area of the isosceles triangle?

12. (52) Evaluate: $ab - (a - b)$ if $a = 0.6$ and $b = 0.4$

13. (60) What number is 15% of 1200?

14. (48) Complete this table.

Fraction	Decimal	Percent
$\frac{3}{8}$	a.	b.
c.	d.	14%

15. (50) Use a unit multiplier to convert 9000 g to kg.

Solve 16–17.

16. (Inv. 7) $q + 26 = 42.6$

17. (Inv. 7) $6n = 33$

Simplify 18–20.

18. (35, 43) $4.6 \times 3\frac{1}{4}$ (decimal answer)

19. (68) $(-6) + (+3) - (-2) - (+5)$

20. (26) $2\frac{2}{3} \div \left(3\frac{1}{3} \cdot 2\right)$