

Parts 5 and 6 Cumulative Problem Review

Note: This cumulative review is devoted entirely to word problems because they are important in real life. Also, word problems are stressed on many standardized tests. These problems are numbered to match the learning unit containing their math topic.

32) Peter drove 390 miles in 6 hours. How fast was he traveling?

33) Calculate the circumference of a circle with a radius of 5 inches. Use 3.14 for π .

34A) A trapezoid has bases of 24" and 12" and a height of 8". Find its area.

34B) Calculate the height of a triangle with a base of 11 inches and an area of 33 square inches.

35) Find the volume of a swimming pool that is 20 feet wide by 30 feet long by 8 feet deep.

36) Find the interest earned on a \$750 savings account over 5 years if simple interest is 4.5%.

37) Calculate the Fahrenheit equivalent temperature for 40 degrees Celsius.

$$F = \frac{9}{5}C + 32$$

38) Pedro bought a present for Pam costing \$40 and one for Jack costing \$30. In addition, he paid a sales tax of 7% on both presents. He paid with \$100. How much change did he receive?

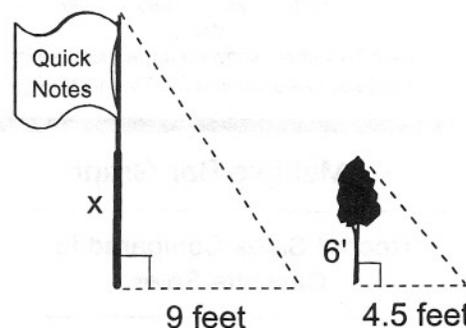
39) Paula scored 84, 88, and 89 on her first three math tests. What was her average? Will a score of 100 on the next test bring her average to 90?

40) Hamburger costs \$1.89 per pound. How much would it cost to make 18 quarter-pound hamburgers?

41) The scale on a blueprint uses 1 inch to represent 6 feet. What is the area of a room that is 3 inches by 4 inches on the blueprint?

42) Jake bought a \$110 suit, which was marked down 20%. He also bought a dress shirt for \$35.95 and a tie for \$15.50. He paid with \$160. What was his change?

43A) A 6-foot tree casts a 4.5-foot shadow. How tall is a flag pole which casts a 9-foot shadow?



43B) Karen plans to take the 12 mile ferry from Bow to Plymouth and then drive back to Bow by way of Concord. Concord is 16 miles from Plymouth. How far will she travel?

