

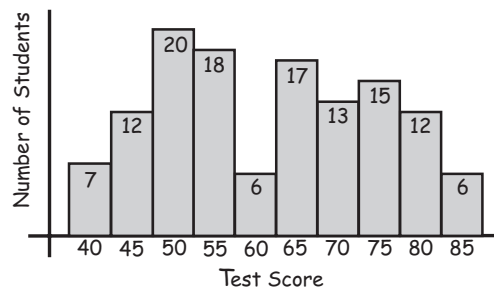


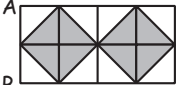
Warm-Up 3

- units The length of the median of a trapezoid is equal to the average of the lengths of its two bases. Trapezoid ABCD has bases of 17 and 45 units. What is the length of its median?
- red cars At 10 a.m., a car dealer had 30 cars that were either red or blue. At 2 p.m., after selling 2 red cars and no blue cars, the dealer had 3 times as many red cars as blue cars. How many red cars did the dealer have at 10 a.m.?
- spots Four students (Yanni, William, Clara and Anna) will stand in a line. If William and Yanni must stand next to each other, and Clara must be first, in how many possible spots can Anna stand? 1st 2nd 3rd 4th
- Twenty-seven increased by twice a number is 39. What is the number?
- The average of the 6 numbers in set A is 12, and the average of the 12 numbers in set B is 6. If none of the numbers in set A are found in set B, what is the average of the 18 numbers in the set A U B?

- The histogram shown describes the results of a test given in Mrs. Hopfinger's five classes. What was the median score for this test? Express your answer as a decimal to the nearest tenth.

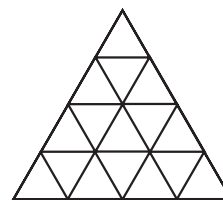
Test Scores in Mrs. Hopfinger's Classes




- sq in  In this quilt pattern, the 16 smallest triangles are congruent, isosceles right triangles. If AB = 10 inches, what is the total area of the 8 shaded regions?

- perfect squares In the sequence 13, 10, 1, 3, ... each term, after the first, is found by adding the tens digit and three times the units digit of the previous term. How many distinct perfect squares will appear in this sequence?

- triangles How many triangles are in the figure shown?



- mph  On the way to visit her sheep, Little Bo Peep traveled at a speed of 6 miles per hour. When she arrived at the flock, she noticed one was terribly ill, and went back home at a speed of 12 miles per hour. Feeling a strong sense of urgency, Little Bo Peep rushed back to the flock at a speed of 24 miles per hour. What was Little Bo Peep's average speed for the three trips? Express your answer as a mixed number.