

Warm-Up 2

1. _____ When the following five numbers are written in order from least to greatest, what is the product of the second and fourth values: $-1.4, \frac{4}{3}, \frac{11}{8}, \frac{-3}{2}, -2\frac{2}{3}$?
2. _____ min Julia runs around the track at a steady rate, finishing 400 meters in exactly two minutes. At that rate, how many minutes will it take her to run 5000 meters?
3. _____ cm Equilateral triangle ABC has side length 400 cm and a perimeter equal to 100 times the perimeter of equilateral triangle DEF. How long is each side of triangle DEF?
4. _____ primes How many two-digit primes have a ones digit of 1?
5. _____ The arithmetic mean of a set of nine numbers is 5. When one more number is added to the set, the new mean is 5.5. What number was added?

Workout 2

1. winner: _____ Kira and Lexi play a game. For each player's turn, if the player has an even number of markers, the player gives half of her markers to her opponent; if the player has an odd number of markers, the player receives three markers from her opponent (or the rest of her opponent's markers if her opponent has fewer than 3). A player loses the game when she runs out of markers. If Kira starts with 10 markers and goes first, and Lexi starts with 6 markers, who wins the game, and with how many markers?

2. inches _____ In the figure to the right, the outer circle has diameter 8 inches. The area of the shaded ring is equal to the area of the inner, non-shaded circle. What is the radius of the inner circle? Express your answer as a decimal to the nearest tenth.

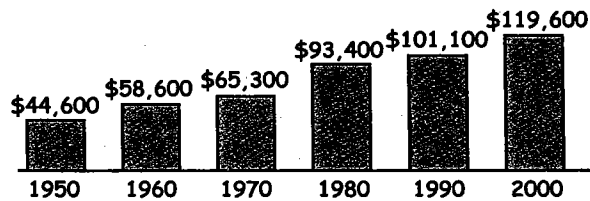


3. \$ _____ A farmer sells 72 turkeys for \$511.92. How much would a dozen turkeys cost at the same price per turkey?

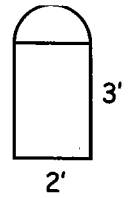
4. cubes _____ A block of cheese 5 inches by 2 inches by 3 inches is coated in a very thin layer of wax. The cheese is cut into 240 cubes with half-inch edges. How many cubes will not have any wax on them?

5. _____ In which year was there the least percent increase in median home value from the median home value ten years earlier?

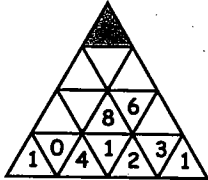
Median Home Values



6. sq feet A Norman window consists of a rectangular region topped by a semi-circular region. What is the area of the glass needed to fill the two regions of a Norman window whose rectangular region measures two feet by three feet, as shown? Express your answer to the nearest whole number.



7. _____



There are 16 non-overlapping equilateral triangles (unit triangles) in the figure shown. Each new number to be written in an empty unit triangle is the product of the three closest numbers in the row directly below it. What number will be written in the shaded unit triangle at the top?

8. _____ Grandma plans to take Mikayla to the zoo. There are three different trails through the zoo. The Jungle Plains Trail passes giraffes, zebras, hippos and elephants. If each trail is equally likely to be chosen, and Mikayla may choose only one trail, what is the probability that she will choose the Jungle Plains Trail? Express your answer as a common fraction.

9. quarters A jar contains only nickels, dimes and quarters. There is at least one of each type of coin in the jar. If the total value of the coins in the jar equals 60 cents, how many quarters are in the jar?

10. _____ % For what percent of the period from 6:00 a.m. through 9:30 a.m. was Eric driving at least 50 miles per hour? Express your answer to the nearest whole number.

