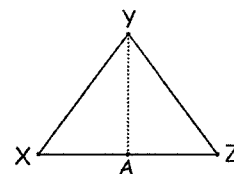


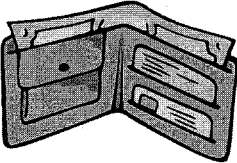


Warm-Up 1

1. \$ _____ If a total of twenty million dollars is to be divided evenly among four million people, how much money, in dollars, will each person receive?

2. _____ sq cm Triangle XYZ has side $XZ = 6$ cm. Segment YA is perpendicular to XZ . If AY is 4 cm, what is the area of triangle XYZ?



3. \$ _____  Wilhelmina went to the store to buy a few groceries. When she paid for the groceries with a \$20 bill, she correctly received \$4.63 back in change. How much did the groceries cost?

4. _____ multiples How many multiples of 8 are between 100 and 175?

5. _____ A three-digit integer is to be randomly created using each of the digits 2, 3 and 6 once. What is the probability that the number created is even? Express your answer as a common fraction.

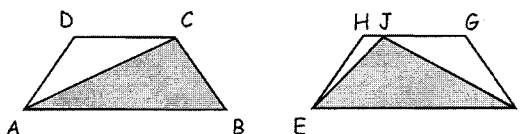
6. _____ In the following arithmetic sequence, what is the value of m ?
- $-2, 4, m, 16, \dots$

7. _____ A particular fraction is equivalent to $\frac{2}{3}$. The sum of its numerator and denominator is 105. What is the numerator of the fraction?

8. _____ What is the least natural number that has four distinct prime factors?

9. _____ areas The perimeter of a particular rectangle is 24 inches. If its length and width are positive integers, how many distinct areas could the rectangle have?

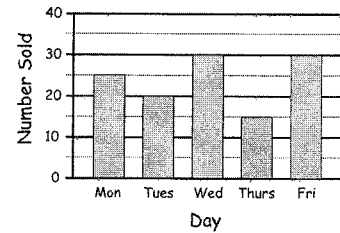
10. _____ sq units Trapezoid ABCD and trapezoid EFGH are congruent. What is the difference between the area of triangle ABC and the area of triangle EFJ?





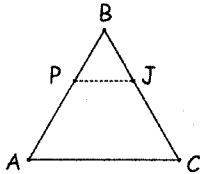
Warm-Up 2

Cartons of Milk Sold per Day



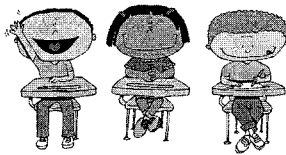
1. _____ cartons The bar graph shows the number of cartons of milk sold per day last week at Jones Junior High. What is the positive difference between the mean and median number of cartons of milk sold per day over the five-day period?

2. _____ inches



An equilateral triangle PBJ that measures 2 inches on each side is cut from a larger equilateral triangle ABC that measures 5 inches on each side. What is the perimeter of trapezoid PJCA?

3. _____ boys



Currently, $\frac{1}{4}$ of the members of a local club are boys, and there are 80 members. If no one withdraws from the club, what is the minimum number of boys that would need to join to make the club $\frac{1}{3}$ boys?

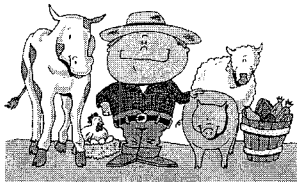
4. _____ outfits If William has 3 pairs of pants and 4 shirts, and an outfit consists of 1 pair of pants and 1 shirt, how many distinct outfits can William create?

5. _____ days Jessica reads 30 pages of her book on the first day. The next day, she reads another 36 pages. On the third day, she reads another 42 pages. If she continues to increase the number of pages she reads each day by 6, how many days will it take her to read a book that has 270 pages?

6. _____ A basket of fruit contains 4 oranges, 5 apples and 6 bananas. If you choose a piece of fruit at random from the basket, what is the probability that it will be a banana? Express your answer as a common fraction.

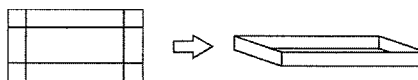
7. _____ What number is halfway between $\frac{5}{8}$ and $\frac{11}{16}$? Express your answer as a common fraction.

8. _____ pounds



Farmer Fred read that his crop needs a fertilizer that is 8% nitrate for optimal yield. He needs to apply 4 pounds of nitrate per acre. If his field has 188 acres, how many pounds of fertilizer will Fred use?

9. _____ sq in Four squares are cut from the corners of a rectangular sheet of cardboard. It is then folded as shown to make a box that is 15 inches long, 8 inches wide and 2 inches tall. What was the area of the original piece of cardboard?



10. _____ degrees Two consecutive angles of a regular octagon are bisected. What is the degree measure of each of the acute angles formed by the intersection of the two angle bisectors?