Warm-Up 1
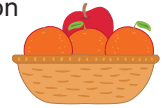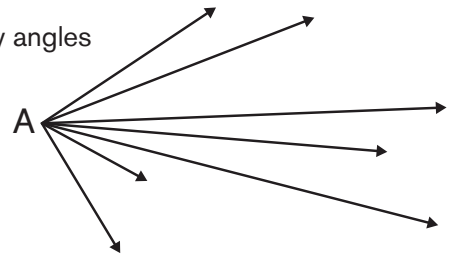
31._____ What number is $\frac{1}{2}$ of $\frac{1}{4}$ of $\frac{1}{8}$ of 60? Express your answer as a common fraction.

32._____ coins Joanie bought three oranges and an apple for a total of $4.27. She paid with four $1 bills and a 50¢ coin. What is the least number of coins consisting of a combination of pennies, nickels, dimes or quarters that she could receive as change?

33._____ What common fraction is equivalent to 7.5%?

34._____ angles Seven rays intersect at point A, as shown. How many angles measuring between 0 and 180 degrees are formed?

35._____ degrees What is the degree measure of the complement of an angle measuring 67 degrees?

36. $_____

Deposit	$125.42
Withdrawal	$422.21
Deposit	$ 57.43
Withdrawal	$ 23.48

Kaleb has $310.78 in his bank account before the following sequence of withdrawals and deposits. What is the final balance of his account?

37._____ What is the absolute difference between 999,999,999 and 234,565,432?

38._____ What is the smallest positive integer that can be multiplied by 9.97 to give a product greater than 100?

39._____ pets Aaron and Jackson have a large number of pets: fish, cats and chickens. The pets have a total of 50 legs, 48 eyes and 6 wings. Assuming each cat has 4 legs, each chicken has 2 legs and 2 wings, and each pet has 2 eyes, how many pets do Aaron and Jackson have?

40._____ What is the sum of the distinct prime factors of 156?

Warm-Up 2

41. _____ Camila's favorite number is positive, and the square of her number plus twice her number is 24. What is her favorite number?

42. _____ inches Janice is 4 inches shorter than David, and David is 2 inches shorter than Evan. If Evan is 13 inches taller than Kathleen and Kathleen is 6 inches shorter than Krysta, by how many inches is Janice taller than Krysta?

43. _____ What is the value of the expression $\left(\dfrac{8}{9} - \dfrac{7}{8} \right) \div \left(\dfrac{6}{7} - \dfrac{5}{6} \right)$? Express your answer as a common fraction.

44. _____ cm The length of a rectangle is three times its width. The area of the rectangle is 75 cm². What is its width?

45. _____ What is the sum of the multiples of 5 from 1 to 100, inclusive?

46. _____ inches This stem-and-leaf plot shows the heights of the basketball players at East High School. If 6|8 represents 68 inches, what is the average height of the basketball players at East High School?

$$
\begin{array}{c|ccccccc}
6 & 8 & 8 & 9 & 9 & & & \\
7 & 1 & 2 & 7 & 7 & 8 & 8 \\
8 & 0 & 1 & & & & &
\end{array}
$$

47. _____ pages On the tenth day of a read-a-thon, Sarah has read 200 pages and Vivian has read 120. On each subsequent day, Sarah reads 10 pages and Vivian reads 30. Eventually, there is a day when Sarah and Vivian have each read the same number of pages. What is this number of pages?

48. _____ stickers What is the greatest number of 19¢ stickers that can be purchased with a $20 bill, assuming there is no sales tax?

49. _____ units A single portion of a special concoction is a mixture of 3 units of ingredient A, 5 units of ingredient B and 11 units of ingredient C. If Jaden wants to make 90 portions, how many more units of ingredient C does she need than ingredient B?

50. _____ Gabe rounds 9.456 to the nearest hundredth. Then, he rounds the result to the nearest tenth. Last, he rounds that result to the nearest integer. If Angel rounds 9.456 to the nearest integer, what is the absolute difference between Gabe's and Angel's final results?