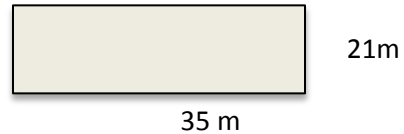## Math Tier 1 Practice Test

1. Target sells one million, three-hundred three thousand, eight hundred twenty digital cameras during the Christmas season. Write this number in expanded form.

2. A playground is 5,336 feet. Round this to the nearest hundred.

3. Bill recently ran 35,958 yards in a local marathon. Round this number to the nearest thousand.

4. Use < or > to make a true sentence.

   11,048 _____ 12, 470

5. Jane and Wendy are participating in a relay race to raise money for charity. Jane will run 4 miles, and then Wendy will run 7 miles. What fraction of the race will Wendy run?.

6. There are 60 minutes in an hour. What fraction of an hour does 15 minutes represent?

7. Find the LCM of 60 and 99

8. Peter is working on a project that requires 7 ¼ tons of sod. If his truck only holds 2 ½ tons, how many trips will he need to make?

9. Write each decimal as a simplified fraction or mixed number.

   a. 0.7

   b. 2.25

10. Multiply

    a. 3.8 • 1.43

    b. 0.062 • 6.7

11. A taxi driver earned $80 one night and bought a meal for $3.50. Estimate how much money did he have remaining? Round to the nearest dollar.

12. Soup is on sale in packages of six for $3, or you may purchase individual cans for $0.55. Which is the cheaper way to buy six cans of soup?
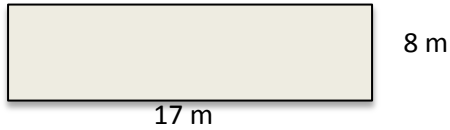
13. Rashad walks 2 miles in 76 minutes. Express his rate as a simplified fraction.	14. A group of 5 friends are having supper at a local pizza place. They ordered and have 25 pizza slices to divide amongst themselves. What is the number of pizza slices for each person?
15. Among a species of tropical birds, 40 out of 50 birds are female. If a certain bird sanctuary has a population of 1,120 of these birds, how many of them would you expect to be female?	16. A recipe for oatmeal cookies calls for 4 cups of flour for every 5 cups of oatmeal. How much flour is needed for a big batch of cookies that uses 12 cups of oatmeal?

17. Write percent as a fraction
 	
  a. 50%
 	
  b. 8%
	18. 20 is what percent of 100?

19. 10% of what number is 28?	20. A particular Etsy site sells homemade clothing online. If 75% of her 1540 customers paid for their orders using PayPal, how many of her customers used other methods of payment?

21.
 	
  6,016 milligrams = _____ grams
	22.
	
	  4 miles 500 feet = _____ feet

23. Some volunteers set up a table with cups of water for marathoners to grab as they run by. They start the day with 12 gallons of water. How many gallons do they have left after passing out 80 cups?	24. Eddie jumps 6.19 meters in the long jump, and Kyle jumps 5.8 meters. How many more centimeters did Eddie jump than Kyle?

25. A 20-foot ladder is leaning against a building. The foot of the ladder is 12 feet from the building. How high up the building does the ladder reach?
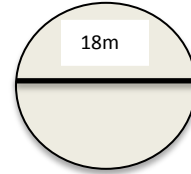
26. Find the perimeter

21m

35 m

27. Find the area.

8 m

17 m

28. Find the circumference of the circle below. Use 3.14 for π

18m

29. Sally want to call her friend overseas. There is a connection fee of $4 and a charge of $2.40 per minute. So the cost of the call is 4 + 2.4t dollars for t minutes. Can she talk for 20 minutes without going over a budget of $50?

30. Boston is, on average, 9 degrees warmer than Portland, Maine. The low temperature on one cold winter day in Portland was – 16 degrees. About what low temperature would you expect Boston to have on that day?

31. John is planning a rectangular garden that is 2 feet wide. He hasn't decided how long to make it, but he's considering 6 feet, 7 feet, and 8 feet. He wants to put a short fence around the garden. Using x to represent the length of the rectangular garden, he will need 2x + 4 feet of fencing. How much fencing will he need for each possible garden length? Evaluate the expression when x = 4 , x = 5, and x = 6 to find out.

32. Use < or > to make a true sentence.

   a. -78 _____ -110

   b. -6.13 _____ -3.87