Area and Perimeter
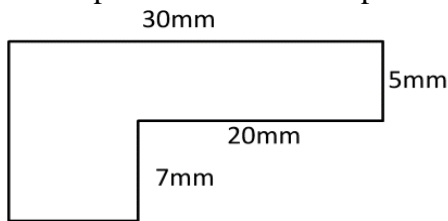
1. The perimeter of a rectangular playground is 46 m. If the length of the park is 7 m, what is the width of the park?

2. A rectangular room measures 12 m by 7 m. What is the area of this room? What is the perimeter of this room?

3. Theresa wants new carpeting for her family room. Her family room is a 12 ft by 21 ft rectangle. How much carpeting does she need to buy to cover her entire family room?

4. What is the perimeter of the composite figure below?

30mm

5mm

20mm

7mm

Long Division

5. The 6th graders are going on a trip to the state park. There are 1,012 students going. Each bus can hold 44 students. How many buses will they need?

6. Samantha has to read a book that is 525 pages long. She has 21 days to read the book. How many pages will she need to read each day to finish on time?

7. Andrew's family is going on vacation across the United States. They traveled 515 miles every day for 17 days. How many miles did they travel in all?

8. Three classes of 25 students collected 8 cans of soup from each student. The cans were then to be divided between 4 charities. How many cans of soup went to each charity?

Order of Operations

9. $20 - (5 + 4) - 6 \div 2 =$

10. $15 \div 3 + 4 \times 5 - 2 =$

11. $10 \times 3 + 8 \div 4 - (3 + 5) =$

12. $94 + 5[17 - (3 + 7)] =$

13. $75 \div 5 + (4 \times 5) =$

14. $80 \div 10 \times 4 + (3 - 1) =$

15. $6 + 3 \times 2 - (3 \times 4) =$

16. $7 \times 3 + 20 \div 5 - (9 + 1) =$

17. $(6 \div 2) + 6 \times 2 - 5 =$

18. $(14 \div 7 \times 2) + (21 \div 3 \times 4) =$

Fractions

19. $4\frac{1}{2} - 2\frac{3}{4} =$

20. $\frac{1}{6} + \frac{7}{12} =$

21. Eve is reading a novel. On the first day, she read $\frac{4}{7}$ of the novel. On the second day, she read $\frac{1}{5}$ of the novel. How much of the novel has she read so far?

22. $\frac{1}{8} + \frac{3}{16} =$

23. $\frac{1}{3} - \frac{2}{9} =$

24. At the candy store, Cheryl bought $\frac{1}{2}$ of a pound of cherry taffy and $\frac{1}{5}$ of a pound of chocolate taffy. How much taffy did she buy?

25. $\frac{3}{15} - \frac{2}{3} =$

26. $\frac{3}{4} \times \frac{5}{6} =$

27. $\frac{1}{4} \times \frac{5}{7} =$

28. $\frac{5}{9} \times \frac{3}{110} =$

29. At a restaurant, Mr. Fudge ordered a fish platter for $12.75 and a piece of cheesecake for $2.50. The tax was $0.97. If he left a $3 tip, how much did Mr. Fudge spend in all?

30. Six friends have four sandwiches to share. What fraction of a sandwich will each person get?

31. If you buy 3 books at $3.95 each, how much change would you get from $20.00?

Place Value
  32. Round the following to the nearest tenth: 728.55

  33. Round the following to the nearest tenth: 9.714

34. Round the following to the nearest hundredth: 281.661

35. Round the following to the nearest whole number: 61.41

Constructed Response:

36. In a class, a teacher asked the students to compare the numbers 405.16 and 405.132. Sophia said, "405.16 is less than 405.132 because 405.132 goes to the thousandths place and 405.16 goes to the hundredths place." Hannah said, "405.16 is greater than 405.132 because the decimal 0.16 is greater than 0.13."

Part A: Which student is correct, and why?

Part B: Explain why the other student's answer is incorrect.

Adding and Subtracting Decimals (Do not use a calculator)

37. $80.11 - 10.09 =$

38. $23.1 + 5.86 =$

39. $50 - 9.99 =$

40. James earned $396.67 for working last week and $348.29 for working this week. What was the total amount he earned?

41. $824.03 - 123.8 =$

42. Last week Maria worked 1.75 hours on Monday, 2.5 hours on Wednesday, and 4 hours on Friday. How many hours did she work last week?

43. Bill's normal temperature is 98.6 °F. Today, Bill is sick and has a temperature of 102.3 °F. How many degrees above his normal temperature is this?

44. At the beginning of a trip, the odometer in Mr. Kilowatt's car read 9,651.4 miles. At the end of the trip, it read 10,475.9 miles. How many miles was the trip?

45. The members of the Pedal Pushers Bicycle Club have traveled 134.8 miles of a 200 mile trip. How many more miles do they have to go?

Unit Measurement Conversions

46. Convert to millimeters: 15 centimeters

47. Convert to meters: 46 km

48. Convert to yards: 6 feet

49. Convert to cups: 9 pints

50. Convert to meters: 5,100 centimeters