4 | Word problems

Solve each word problem. Show your thinking.

a. Tyler wrote the number 356,249. Using the same 6 digits, he wrote another number at least 40,000 less. What was the greatest possible number he could have written?	**b.** Dallas said the number 561,786 when rounded to the nearest ten would be 561,800. Is she correct?
c. Gabriel wrote down a number that was 100 times greater than Beatrice's number. Beatrice's number was 6,239. What number did Gabriel write down?	**d.** Daniel and Emilia have listed the factors of 96. Daniel's list shows 2, 3, 24, and 48. Emilia has listed 6, 8, and 32. Which factors are they missing?
e. One yard is 25 ft long and 10 ft wide. Another yard is 22 ft long and 10 ft wide. What is the difference in area?	**f.** A square room had a perimeter of 120 yards. What is the length of each side of the room?

4 Word problems

Solve each word problem. Show your thinking.

a. Tyler wrote the number 356,249. Using the same 6 digits, he wrote another number at least 40,000 less. What was the greatest possible number he could have written?

296,543

b. Dallas said the number 561,786 when rounded to the nearest ten would be 561,800. Is she correct?

no

c. Gabriel wrote down a number that was 100 times greater than Beatrice's number. Beatrice's number was 6,239. What number did Gabriel write down?

623,900

d. Daniel and Emilia have listed the factors of 96. Daniel's list shows 2, 3, 24, and 48. Emilia has listed 6, 8, and 32. Which factors are they missing?

1, 4, 12, 16, 96

e. One yard is 25 ft long and 10 ft wide. Another yard is 22 ft long and 10 ft wide. What is the difference in area?

30 ft²

f. A square room had a perimeter of 120 yards. What is the length of each side of the room?

30 yd