

Name: _____

A factory that makes marbles has a problem. They have made 783 612 marbles and need to make sure they can put 6 marbles in each bag that can then be sold. Will they have any left over? Explain your answer.

Christopher made 192 nectarine desserts. He arranged the desserts on platters, with the same number of desserts on each platter. Is it possible to have 8 desserts on each platter? Explain your answer?

Heather is starting a new business making flower baskets. For each basket she needs 6 different flowers. She has 264 roses, 440 lilies, 525 carnations, 475 poppies, 500 daisies, and 532 water peonies.

There are 232 students living in rooming houses at a university. The same number of students live in each rooming house. Are there 4 or 8 rooming houses at the university? Explain your answer.

A T-shirt factory made 9,465 blue T-shirts. The manager wants to put the same number of shirts into bags to sell. He puts 8 t-shirts into each bag and has none left over. Is the manager correct in their calculation? Explain your answer.

What digit would make this number divisible by 4? Explain.

What number would make this digit divisible by 8? Explain.

If a number is divisible by 5 and 6 what do we know about it?

- a. The number ends in a 2.
- b. The number ends in a 0
- c. The number starts with a 4.
- d. The tens digit of the number is a 3.

Which of the following numbers is divisible by 6?

- a. 349
- b. 2972
- c. 32523
- d. 8754

Which of the following number is divisible by 6?

- a. 2701
- b. 8562
- c. 3615
- d. 7847

Which digit would make this number divisible by 6? 7_68

- a. 3
- b. 4
- c. 5
- d. 8

Which digit would make this number divisible by 6? 23_0

- a. 4
- b. 5
- c. 6
- d. 9

Which digit would NOT make this number divisible by 6? 7_04

- a. 5
- b. 4
- c. 7
- d. 1
- e.

Farmer Harold has 402 onions to sell. He wants to put the same number of onions in each bag without any onions left over. How many onions could Farmer Harold put in each bag?

- a. 4
- b. 6
- c. 10
- d. 5

Greg is arranging 460 pictures in a scrapbook. He wants to put the same number of pictures on each page. How many pictures could Greg put on each page of the scrapbook?

- a. 6
- b. 3
- c. 10
- d. 9

There are 7,694 balloons in bags in the party supply warehouse. Each bag contains the same number of balloons. How many bags of balloons could there be?

- a. 6
- b. 4
- c. 2
- d. 5

A teacher is preparing a test. She wants to put the same number of questions on each page. If the test will have 36 questions, how many questions could the teacher put on each page?

- a. 10
- b. 9
- c. 5
- d. 4