Two-Digit Divisors

Part I. Use estimation to solve the problems below.

EXAMPLE:

Caryn's scout troop needs to sell 603 magazine subscriptions in order to win a trip to the local theme park. If there are 26 scouts in her troop, how many subscriptions will each scout need to sell to win the theme park trip?

FINDING THE ANSWER:

The troop must sell a total of 603 subscriptions, which is about **600**. Round 603 down to 600. There are 26 scouts in Caryn's troop, which is about **30**. Round 26 up to 30. 600 ÷ 30 = 20.

Answer: Each scout will need to sell about **20** subscriptions.

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1. Daniel's school band has 74 different instruments, from triangles to tubas. There are 26 kids in band. How many instruments can each student learn this year?

2. Mrs. Bennett's class is making programs for the school play. They need to make 329 programs in all. If there are 21 students in Mrs. Bennett's class, how many programs does each student need to make?

3. Kory wants to finish his book report ahead of schedule. It is due in 63 days, but he would like to finish reading the book in 45 days so he can use the rest of his time to write the report. His book is 272 pages long. How many pages will he need to read in order to finish it in 45 days?

4. Carmel is keeping track of how much exercise she gets. She wants to do 630 minutes of exercise over the next three weeks. How many minutes of exercise will she need per day to meet her goal? (**Hint:** 3 weeks = 21 days!)

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Part II. Find the exact answers for these problems. There will be no remainders.

1. $117 \div 13 =$ _____

2. $136 \div 17 =$ _____

3. $105 \div 15 =$ _____

4. $208 \div 13 =$ _____

5. $488 \div 61 =$ _____

6. $31 \div 31 =$ _____

7. $1{,}128 \div 94 =$ _____

8. $943 \div 41 =$ _____

9. $546 \div 42 =$ _____

10. $726 \div 22 =$ _____

11. $1{,}358 \div 97 =$ _____

12. $2{,}100 \div 84 =$ _____