Classwork: Day-06

Think-Pair-Share
(Model)

Example #1: There are 26 boys on a travel soccer team. In order to get to their game this Saturday they have to have their parents take them. If each parent can fit four passengers in their cars, how many cars will they need so that all of the boys can go to their soccer game?

Method 1: Draw a picture demonstrating the number of cars that will be needed?

Method 2: Mathematically

Answer: _____

Example #2:

Tracey is trying to figure out how many rows of chairs are needed to seat 888 students, with 24 chairs in each row. She writes the equation $24 \times \boxed{} = 888$.

a.   What related division equation could Tracey use?

_____

b.   How many rows of chairs are needed? _____

Show your work for part b below:

Answer: There are _____ rows of chairs needed.

Example #3
There are 896 people at the school's basketball game. The stands are divided into 16 sections. If each section has the same number of people, how many people are in each section?

Answer:_____

Example #4
A train traveled 936 miles at a constant speed in 12 hours.

   a) How can you find the number of miles the train traveled each hour?

   _____

   b) How many miles did the train travel each hour? Show your work below.

Answer: _____

Example #5

Zachary is reading a book that has 420 pages. The book is divided into 28 chapters. What is the average number of pages per chapter?

Answer: _____

Example #6

An art teacher has 816 toothpicks to distribute equally among 16 students. How many toothpicks does each student get?

Answer: _____

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Independent Practice:

Example #1

A local theater charges $26 for each adult ticket and $17 for each student ticket. For one show, the theater took in $988 from adults and $731 from students. How many people attended the performance?

Answer: _____ people attended the concert.
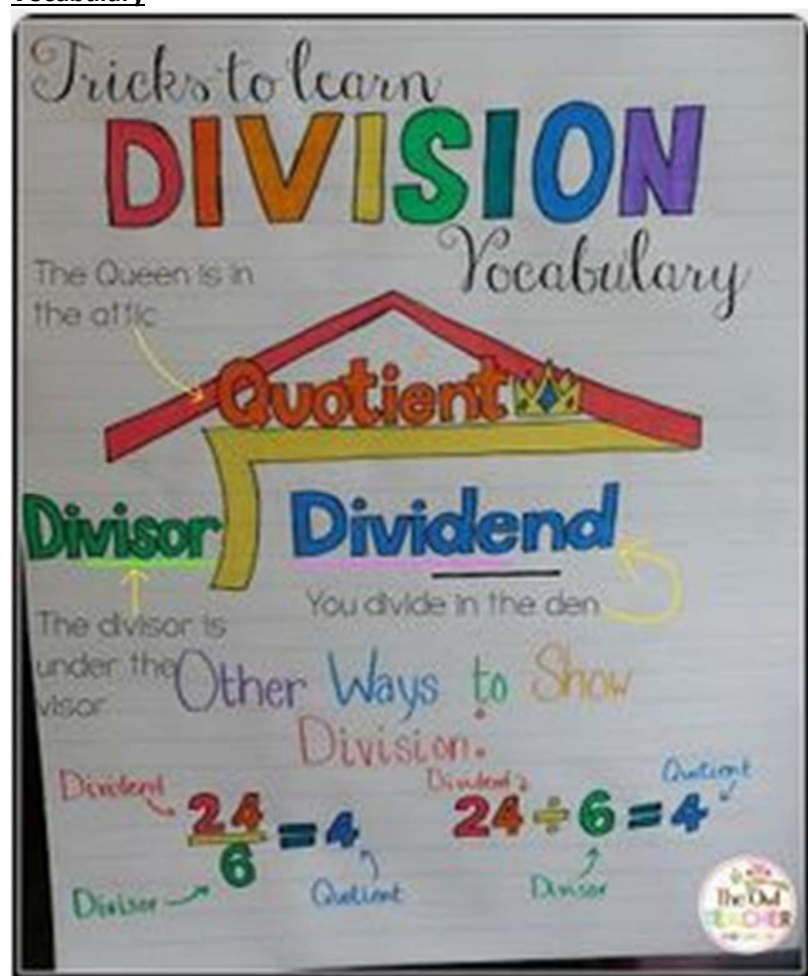
Example #2

A sporting goods company ships their baseballs in cartons that hold 48 balls. How many cartons will they need to ship 1,400 baseballs?

a. How can you find the number of cartons?

_____

b. What is the quotient? What does the remainder mean?

_____

Answer: The quotient is _____. The remainder means

_____

_____

Vocabulary

Division Vocabulary

Dividend – The number being divided.

Divisor – The number that is dividing the dividend.

Quotient – The answer of a division problem.

Remainder – The number left over when a dividend cannot be divided equally.

              Quotient Remainder

Divisor | **Dividend**

Homework Day-06

1 A farmer is packing 2,205 pounds of potatoes into boxes. Each box can hold 49 pounds. How many boxes can the farmer fill?

A   10

B   20

C   45

D   46

How are the numbers in the problem related?

2 What is the quotient of 6,135 and 15?

A   40 R9

B   49

C   409

D   6,120

Olivia chose **B** as the correct answer. How did she get that answer?

_____

How can estimation help me answer this question?

3 A recipe for fruit punch calls for 2 cans of pineapple juice and 3 cans of orange juice. Hiri is making a large batch of juice for a community function and uses 72 cans of orange juice. How many cans of pineapple juice should he use?

Show your work.

What two numbers can you divide to help you solve this problem?

Solution: _____

4 Tell whether each quotient has a remainder. Select *Yes* or *No*.

a. 782 ÷ 17   ☐ Yes   ☐ No

b. 1,296 ÷ 22   ☐ Yes   ☐ No

c. 4,256 ÷ 38   ☐ Yes   ☐ No

When will you have a remainder in dividing two numbers?

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5 Which of these have the quotient 128? Select all that apply.

A   2,048 ÷ 16   C   5,760 ÷ 45

B   2,986 ÷ 24   D   6,576 ÷ 67

Could estimation help me to eliminate any of the answer choices?

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6 East High School had a total of 12,510 people in attendance during their 15-game soccer season. West High School had a total of 14,310 people for 18 games. On average, which school had a greater number of people watching per game? How much greater?

Show your work.

How can you find the average number of people who watched each game?

Solution: _____

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7 A lightbulb manufacturer produces 20,000 lightbulbs each week. They ship the lightbulbs to stores in cartons of 75. How many cartons are needed to ship 20,000 lightbulbs?

A   50 cartons   C   266 cartons

B   250 cartons   D   267 cartons

Do you need to round up or down because of the remainder?