

Mr. Tu's Excellent Examples

Module 2 Old Navy Distribution Center



Applying Lesson 2.1

1. Two trailers of shirts have just arrived at the Old Navy Distribution Center. One trailer contains 1,957 cases of shirts. The other trailer contains 1,365 cases. How many cases of shirts arrived on these two trailers?

$$\begin{array}{r} 1,957 \\ + 1,365 \\ \hline 3,322 \end{array}$$

3,322 cases of shirts arrived on the two trailers.

2. After the two trailers arrived in Problem 1, a third trailer arrived with 1,889 cases of shirts. How many total cases arrived on these three trailers?

$$\begin{array}{r} 3,322 \\ + 1,889 \\ \hline 5,211 \end{array}$$

5, 211 cases of shirts arrived on the three trailers.

Applying Lesson 2.2

1. The Old Navy Distribution Center has 7,436 cases of red polo shirts in stock. 1,582 cases are size small. Excluding the size small shirts, how many cases of red polo shirts are in stock at the Old Navy Distribution Center?

$$\begin{array}{r} 7,436 \\ - 1,582 \\ \hline 5,854 \end{array}$$

There are 5,854 cases of red polo shirts in stock that are not size small.

2. The manager of the Old Navy Distribution Center has just been informed that 287 cases of khaki pants received water damage when the sprinkler system was set off. Prior to the water damage, there were 3,462 cases of khaki pants in stock. How many cases do not have water damage?

$$\begin{array}{r} 3,462 \\ - 287 \\ \hline 3,175 \end{array}$$

3,175 cases of khaki pants have not received water damage.

Applying Lesson 2.3

1. The Old Navy Distribution Center has 7,468 cases of olive slacks in stock. Each case contains 24 pairs of olive slacks. How many pairs of olive slacks are in stock at the Old Navy Distribution Center?

$$\begin{array}{r} 7,468 \\ \times 24 \\ \hline 179,232 \end{array}$$

179,232 pairs of olive slacks are in stock.

2. Each warehouse worker can load 564 cases of product on a truck each day. How many cases can a crew of 14 men load?

$$\begin{array}{r} 564 \\ \times 14 \\ \hline 7,896 \end{array}$$

Fourteen men can load 7,896 cases.

Applying Lesson 2.4

1. The Old Navy Distribution Center plans to ship as many full cases of gray t-shirts as possible next week to 97 different stores. The distribution center has 9,235 cases of gray t-shirts in stock. If each store receives an equal number of cases, how many cases will each store receive? Will there be any cases left over? If yes, how many?

$$\begin{array}{r} 95 \\ 97 \overline{) 9,235} \\ \underline{- 8,730} \quad 95 \text{ R } 20 \\ 505 \\ \underline{- 485} \\ 20 \end{array}$$

**Each store will receive 95 cases of gray t-shirts.
There will be 20 cases of gray t-shirts left over.**

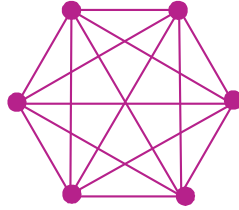
2. The distribution center is expecting to receive 8,750 cases of product today. A forklift can remove 120 cases from the truck in one trip. How many trips will the forklift need to make to unload all the cases?

$$\begin{array}{r} 72 \\ 120 \overline{) 8,750} \\ \underline{- 8,400} \quad 72 \text{ R } 110 \\ 350 \\ \underline{- 240} \\ 110 \end{array}$$

The forklift will need to make 73 trips to unload all the cases.

Applying Lesson 2.5

1. The Manager of the Old Navy Distribution Center wants to implement a “Total Quality Management Program” (TQM). He wants to have inter-departmental meetings to develop ideas for quality improvement. There are six departments at the distribution center. The manager wants a team from each department to meet with a team from every other department twice a year. How many meetings will need to be scheduled?



$$15 \times 2 = 30 \text{ meetings}$$

The manager will need to schedule 30 meetings.

2. The warehouse manager is trying to read a report given to him on the number of cases of shirts that are in the warehouse. Because of smudge marks he cannot read the report. The manager knows the single digit number represents the number of cases in each stack and the three digit number represents the number stacks. How many cases are in each stack; how many stacks are there; and how many total cases are there if the report looks like this:

$$\begin{array}{r} 3*4 \\ \times \quad * \\ \hline *,*68 \end{array}$$

$$\begin{array}{r} 324 \\ \times \quad 7 \\ \hline 2,268 \end{array}$$

**There are seven cases in each stack. The center has 324 stacks.
There are a total of 2,268 cases.**