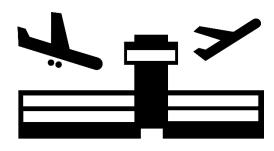# Mixed operations word problems

Grade 5 Word Problems Worksheet

During a normal day, there are 280 planes taking off from the airport, but the airport is a lot busier during Christmas. During the Christmas holidays, about 336 planes take off every day from the airport.

1.   During the Christmas holidays, the airport opens 12 hours during each day, how many planes take off from this airport in each hour?

2.   In average, each plane takes 240 passengers and 12 tons of cargo. How many passengers depart from the airport every hour during the Christmas holidays?

3.   Compared with a normal day, how many more passengers depart from the airport in a day during the Christmas holidays?

4. During a normal day, there are 782 passengers in average that are late for their plane each day. However, during the Christmas holidays, there are 1,835 passengers that are late for their planes each day which caused delays of 14 planes. How many more passengers are late for their planes in each day during the Christmas holidays?

5. The airport administration did a study and found that an additional 5 minutes of delay in the overall operation of the airport is caused for every 32 passengers that are late for their flights. What is the delay in the overall operation if there are 832 passengers late for their flights?

6. Write an equation using "x" and then solve the equation.
   On the New Year Eve, there were 7,580 tons of cargo loaded in the morning. In the afternoon, there were x tons of cargos. The total weight of cargos loaded on the day weighed 12,997 tons.

Answers

1. $336 \div 12 = 28$
   28 planes take off from this airport each hour during the Christmas holidays.

2. $28 \times 240 = 6,720$
   6,720 passengers depart from the airport every hour.

3. $(336 - 280) \times 240 = 13,440$
   13,440 more passengers depart from the airport in a day during the Christmas holidays.

4. $1,835 - 782 = 1,053$ passengers
   1,053 more passengers are late for their planes in each day during the Christmas holidays.

5. $832 \div 32 \times 5 = 130$
   There will be a delay of 130 minutes in the overall operation of the airport.

6. $7,580 + x = 12,997$
   $x = 5,417$

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