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5.NBT.B.6 Dividing by 1-Digit Numbers (Word Problems)

5.NBT.B.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors

1. Divide and record the answer as shown in example a.
   a. $4,906 \div 8 =$
   b. $898 \div 5 =$
   c. $3,702 \div 6 =$
   d. $9,598 \div 7 =$
   e. $5,607 \div 4 =$
   f. $8,057 \div 9 =$

   Solution:
   a. 613 r2
   b.
   c.
   d.
   e.
   f.

2. Jimmy is packing cupcakes in boxes, each box having 9 cupcakes. If Jimmy has 199 cupcakes to pack, how many boxes does he need? How many cupcakes will remain? Explain how you can verify the answer by using multiplication and addition.

   Solution:

3. A ride at a theme park can accommodate 8 persons at a time. It takes 6 minutes ride from start to finish. There are 79 people waiting in line for the ride.
   a. How many times will the ride be full?
   b. How many people will go in the last ride?
   c. How much time will it take for all people waiting in line to take the ride?

   Solution:
   a.
   b.
   c.

4. A boat at the beach can accommodate 8 visitors at a time. The beach has 162 visitors who wants to ride a boat. How many boats are needed? How many visitors will be on the boat that is not loaded to its capacity?

   Solution:

5. 562 plates are to be arranged in the tables. Each table will have 8 plates. How many plates remained?
   A. 1   C. 3
   B. 2   D. 4

   Solution:

6. A gallon has 8 pints. How many gallons are there in 1,536 pints?
   C. 190   C. 193
   D. 192   D. 195

   Solution:

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Answer Key

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   d. $9,598 \div 7 =$
   e. $5,607 \div 4 =$
   f. $8,057 \div 9 =$

   Solution:
   a. 613 r2
   b. 179 r3
   c. 617 r0
   d. 1,371 r1
   e. 1,401 r3
   f. 895 r2

2. Jimmy is packing cupcakes in boxes, each box having 9 cupcakes. If Jimmy has 199 cupcakes to pack, how many boxes does he need? How many cupcakes will remain? Explain how you can verify the answer by using multiplication and addition.

   Solution:
   22 boxes; 1 cupcake remain.
   Dividend = Quotient × Divisor + Remainder

3. A ride at a theme park can accommodate 8 persons at a time. It takes 6 minutes ride from start to finish. There are 79 people waiting in line for the ride.
   a. How many times will the ride be full?
   b. How many people will go in the last ride?
   c. How much time will it take for all people waiting in line to take the ride?

   Solution:
   a. 9 times
   b. 7 people
   c. 60 minutes

4. A boat at the beach can accommodate 8 visitors at a time. The beach has 162 visitors who wants to ride a boat. How many boats are needed? How many visitors will be on the boat that is not loaded to its capacity?

   Solution:
   20 boats; 2 visitors

5. 562 plates are to be arranged in the tables. Each table will have 8 plates. How many plates remained?
   A. 1   C. 3
   B. 2   D. 4

   Solution: B

6. A gallon has 8 pints. How many gallons are there in 1,536 pints?
   A. 190   C. 193
   B. 192   D. 195

   Solution: B