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5.NBT.B.6 Quotients and Remainders

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

1. Divide and find the quotient and remainder.

   a. $23 \div 3 =$
   b. $18 \div 5 =$
   c. $32 \div 6 =$
   d. $67 \div 4 =$
   e. $58 \div 8 =$
   f. $67 \div 8 =$
   g. $77 \div 9 =$
   h. $98 \div 12 =$

   Solution:
   a.   e.
   b.   f.
   c.   g.
   d.   h.

2. Coach of basketball team needs to buy balls with $83. Price of a ball is $9. What is the most number of balls that the coach can buy? How much money will be left over?

   Solution:

3. Maxine has $46 to buy scarves. If each scarf costs $8, how many scarves can Maxine buy? How much money will she have after buying the scarves?

   Solution:

4. Jordan bought several pairs of socks at $5 each and gave the store clerk $100. He was given a $15 change. How many pairs of socks did he buy?

   Solution:

5. Juliet divided 87 by 7. She says that the quotient is 11 and the remainder is 10. Explain her error and find the correct quotient and remainder.

   Solution:

6. Romeo needs to plant 108 flowers in 11 rows. Each row should have equal number of flowers. How many plants will be in each row? How many flowers will be left over?

   Solution:

7. Ella wants to put 84 flowers into several flower vases having equal number of flowers. She wants to put 7, 8, or 9 flowers in each vase. How many flowers should she put into the flower vases so that there are no left overs?

   Solution:

8. True or False.
   a. Quotient can be greater than dividend.
   b. Remainder can be greater than divisor.
   c. Remainder can be zero.
   d. Dividend must be equal to the sum of remainder and the product of quotient and divisor.

   Solution:
   a.
   b.
   c.
   d.

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1. Divide and find the quotient and remainder.
   a. $23 \div 3 =$ e. $58 \div 8 =$
   b. $18 \div 5 =$ f. $67 \div 8 =$
   c. $32 \div 6 =$ g. $77 \div 9 =$
   d. $67 \div 4 =$ h. $98 \div 12 =$

   Solution:
   a. 7 r2   e. 7 r2
   b. 3 r3   f. 8 r3
   c. 5 r2   g. 8 r5
   d. 16 r3   h. 8 r2

2. Coach of basketball team needs to buy balls with $83. Price of a ball is $9. What is the most number of balls that the coach can buy? How much money will be left over?

   Solution:
   9 balls; $2 will be left over

3. Maxine has $46 to buy scarves. If each scarf costs $8, how many scarves can Maxine buy? How much money will she have after buying the scarves?

   Solution:
   5 scarves; $6

4. Jordan bought several pairs of socks at $5 each and gave the store clerk $100. He was given a $15 change. How many pairs of socks did he buy?

   Solution:
   17 pairs of socks

5. Juliet divided 87 by 7. She says that the quotient is 11 and the remainder is 10. Explain her error and find the correct quotient and remainder.

   Solution: Remainder cannot be larger than divisor; 12 r3

6. Romeo needs to plant 108 flowers in 11 rows. Each row should have equal number of flowers. How many plants will be in each row? How many flowers will be left over?

   Solution: 9 flowers in each row; 9 left over

7. Ella wants to put 84 flowers into several flower vases having equal number of flowers. She wants to put 7, 8, or 9 flowers in each vase. How many flowers should she put into the flower vases so that there are no left overs?

   Solution:
   7 flowers each

8. True or False.
   a. Quotient can be greater than dividend.
   b. Remainder can be greater than divisor.
   c. Remainder can be zero.
   d. Dividend must be equal to the sum of remainder and the product of quotient and divisor.

   Solution:
   a. False
   b. False
   c. True
   d. True