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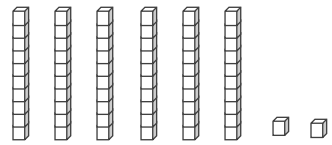
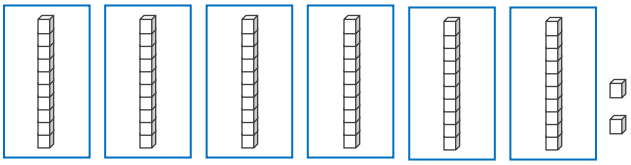
4.NBT.B.6 Divide 2-Digit Numbers by 1-Digit Divisors Using Models

4.NBT.B.6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors

1. Use the base-ten blocks to model the division. Find quotient and remainder.

Example Problem: Divide 62 by 6	Divide 46 by 4
Step 1: Draw the dividend. 	
Step 2: Draw same number of boxes as the divisor. 	
Step 3: Divide tens and ones in each box equally. Put the remaining blocks outside. 	
Solution: Quotient: Number of blocks in each box = 10 Remainder: Number of remaining blocks = 2	Solution:

2. Use additional blank paper to draw models. Divide to find quotient and remainder.

a. $28 \div 3 =$
b. $39 \div 2 =$
c. $58 \div 6 =$
d. $42 \div 8 =$

Solution:
a.
b.
c.
d.

e. $7\overline{)47} =$
f. $6\overline{)88} =$
g. $9\overline{)65} =$

Solution:
e.
f.
g.

3. There are 28 flowers that need to be placed in 3 vases. Explain how you can use base-ten blocks to find out how many flowers will be on each vase.

Solution:

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Answer Key

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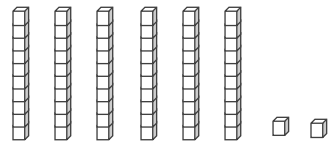
4.NBT.B.6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors

1. Use the base-ten blocks to model the division. Find quotient and remainder.

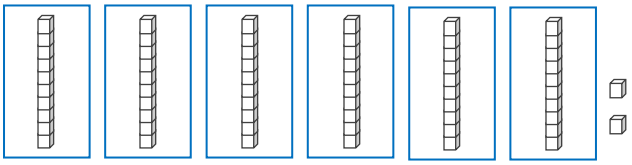
Example Problem: Divide 62 by 6

Step 1: Draw the dividend.



Step 2: Draw same number of boxes as the divisor.

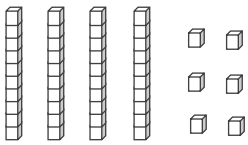
Step 3: Divide tens and ones in each box equally. Put the remaining blocks outside.



Solution:
Quotient: Number of blocks in each box = 10
Remainder: Number of remaining blocks = 2

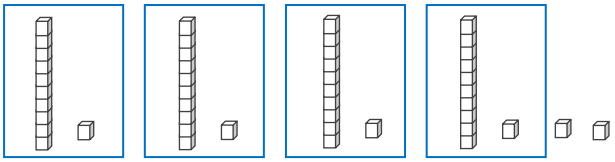
Divide 46 by 4

Step 1: Draw the dividend.



Step 2: Draw same number of boxes as the divisor.

Step 3: Divide tens and ones in each box equally. Put the remaining blocks outside.



Solution:
Quotient: Number of blocks in each box = 11
Remainder: Number of remaining blocks = 2

2. Use additional blank paper to draw models. Divide to find quotient and remainder.

a. $28 \div 3 =$
b. $39 \div 2 =$
c. $58 \div 6 =$
d. $42 \div 8 =$

Solution:
a. Quotient:9; Remainder:1
b. Quotient:19; Remainder:1
c. Quotient:9; Remainder:4
d. Quotient:5; Remainder:2

e. $7\overline{)47} =$
f. $6\overline{)88} =$
g. $9\overline{)65} =$

Solution:
e. Quotient:6; Remainder:5
f. Quotient:14; Remainder:4
g. Quotient:7; Remainder:2

3. There are 28 flowers that need to be placed in 3 vases. Explain how you can use base-ten blocks to find out how many flowers will be on each vase.

Solution:
First, we will draw 28 using base-ten blocks. Then we shall draw 3 boxes and divide the blocks equally. Each box contains 8 blocks and remaining 4 blocks will be outside. Hence, each vase will have 8 flowers and two flowers will remain unused.