

Name Key

Date _____

Learning Target: *Gain familiarity with factors and multiples.*

1. Record the factors of the given numbers as multiplication sentences and as a list in order from least to greatest. Classify each as prime (P) or composite (C).

a.	7 <u>1</u> x <u>7</u> = 7	The factors of 7 are: 1, 7	P
b.	12 <u>2</u> x <u>6</u> = 12 <u>3</u> x <u>4</u> = 12 <u>1</u> x <u>12</u> = 12	The factors of 12 are: 1, 2, 3, 4, 6, 12	C

2. List the first 10 multiples of 4.

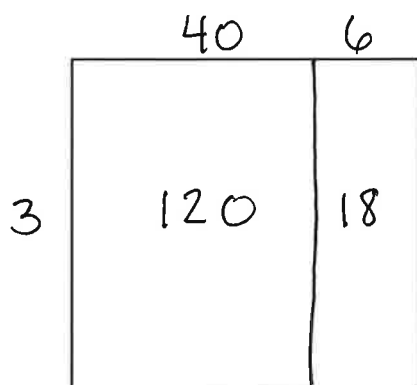
0 4 8 12 16 20 24 28 32 36

Circle the multiples of 4 above that are also multiples of 8.

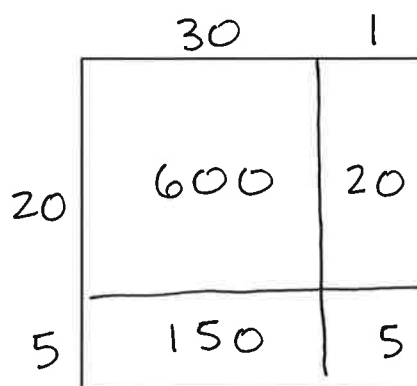
Learning Target: *Use place value understanding and properties of operations to perform multi-digit arithmetic.*

3. Use the area model to multiply.

a. $3 \times 46 = \underline{138}$



b. $25 \times 31 = \underline{775}$



$750 + 25 = 775$

4. Use partial products to solve.

	3	6
x		5
<hr/>		
	3	0
1	5	0
<hr/>		
1	8	0

		5	4
	x	7	2
<hr/>			
			8
	1	0	0
	2	8	0
3	5	0	0
<hr/>			
3,	8	8	8

5. Solve using place value disks.

$$37 \div 2$$

Tens	Ones

quotient = 18

remainder = 1

Solve using the forgiving method.

6. $53 \div 3$

$17 \text{ r } 2$
 10
 7
 $\frac{7}{17}$

7. $95 \div 4$

$23 \text{ r } 3$
 20
 3
 $\frac{3}{23}$

Learning Target: Use the four operations with whole numbers to solve problems.

Solve using tape diagrams, area models or equations.

Show your work and write your answer as a statement.

8. David has 243 stickers. Ellen has 3 times as many as David. How many stickers does Ellen have? (various strategies)

$$\begin{array}{r}
 243 \\
 \times 3 \\
 \hline
 9 \\
 120 \\
 + 600 \\
 \hline
 729
 \end{array}$$

Answer statement Ellen has 729 stickers.

9. Mary Beth could jump 42 times each minute. How many times could she jump in two hours? (various strategies)

$$\begin{array}{r}
 120 \\
 \times 42 \\
 \hline
 240 \\
 4800 \\
 \hline
 5040
 \end{array}$$

Answer statement Mary Beth could jump 5,040 times in 2 hours.

10. It takes 4 apples to make 1 pie. A bakery used 512 apples. How many pies did they make?

$$\begin{array}{r}
 128 \\
 4 \overline{)512} \\
 \underline{-400} \quad 100 \\
 112 \\
 \underline{-80} \quad 20 \\
 32 \\
 \underline{-32} \quad 8 \\
 0 \quad \underline{128}
 \end{array}$$

(various strategies)

Answer statement The bakery made 128 pies.