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## **MATHEMATICS 507**

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## I. Part One

Objectives

To divide with a 2-digit divisor To add zeros to the minuend when subtracting decimals To multiply whole numbers and decimals

Every number has a set of multiples. For example ...

the multiples of 20 are 20, 40, 60, 80, 100, 120, 140, 160, 180, 200, ...

1.1 Write the multiples of these tens' numbers. Begin with the number.

a.	30		/	/	/	/		,	·	,,	
b.	40		/	/	/	/	,,	/		,,	
c.	50		′	,	/	,	·	/			
d.	60		/	,	/	,	·	/			
e.	70	/	,	,	,	,		/		,,	
f.	80		/	/	/	/	,,	,		,,	
g.	90	/	/	/	/	/		/		,,	

We follow the same steps to divide with a 2-digit divisor that we followed for a 1-digit divisor.

	Try to divide 20 into 1 and 12.
	They are too small to be multiples of 20.
6	Try to divide 20 into 120. The largest multiple of 20 that is equal
20)120	to <i>or</i> less than 120 is 120. 6 x 20 = 120
120	Write 6 in the quotient above 0. Multiply. $6 \times 20 = 120$
0	Write 120 below 120 in the problem. Subtract. $120 - 120 = 0$
	Compare. 0 is less than the divisor (20).
	There are no numbers in the dividend to bring down.

**1.2** Follow the steps. Divide.

a.	40)160	60)240	30)270	70)140
b.	80)560	90)630	50)200	40)320

There may be a remainder when we divide with a 2-digit divisor.

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Try to divide 30 into 1 and 15.
They are too small to be multiples of 30.
Try to divide 30 into 154. The largest multiple of 30 that is equal
to <i>or</i> less than 154 is 150. 5 x 30 = 150.
Write 5 in the quotient above 4. Multiply. $5 \times 30 = 150$ .
Write 150 below 154 in the problem. Subtract. $154 - 150 = 4$
Compare. 4 is less than the divisor (30).
There are no numbers in the dividend to bring down.
The answer is 5 with a remainder of 4.

**1.3** Follow the steps. Divide.

a.	40)165	60)367	50)253	90)187
b.	30)218	80)247	40)283	70)355
c.	60)437	60)261	80)579	50)352

It is easy to remember the multiples of the tens' numbers. Multiply the number. Add a zero.

2 x	8 = 16	2 x 80 = 160	7 x 9 = 63	7 x 90 = 630
1.4 Wr	ite the missing	multiples.		
а.	3 x 7 =	3 x 70 =	5 x 8 =	_ 5 x 80 =
b.	4 x 3 =	4 x 30 =	9 x 2 =	_ 9 × 20 =
с.	6 x 5 =	6 x 50 =	1 x 4 =	_ 1 x 40 =
d.	7 x 6 =	7 x 60 =	8 x 8 =	_ 8 x 80 =
e.	2 x 9 =	2 x 90 =	9 x 1 =	_ 9 x 10 =

Think of the multiples of 10, 20, 30, … when dividing by a 2-digit number.

	Try to divide 80 into 5 or 52.
	They are too small to be multiples of 80.
6 R47	Try to divide 80 into 527. The largest multiple of 80 that is
80)527	equal to <i>or</i> less than 527 is 480. 6 x 80 = 480.
480	Write 6 in the quotient above 7. Multiply. $6 \times 80 = 480$
480	Write 480 below 527 in the problem. Subtract. $527 - 480 = 47$
	Compare. 47 is less than the divisor (80).
	There are no numbers in the dividend to bring down.
	The answer is 6 with a remainder of 47.

1.5 Follow the steps. Divide.

a.	60)134	40)169	20)187	80)259
b.	30)136	70)183	90)472	50)178
C.	40)264	20)148	30)246	70)381
d.	80)590	50)423	60)381	90)293

1.6	Describe	e each	of the de	cimals as a (F	) fraction or (	M) mixed nur	nber.
	3.5		08	.256	43.02	9.063	.701
1.7	Write in	word	S.				
	2.08						
	.621						
1.8	Write in	digits					
	thirty-fiv	ve tho	usandths		two and f	ive hundredth	IS
1.9	Write as	vertio	al proble	ms. Complete	e columns by	adding zeros.	Find the sum.
а	. 3.295 +	.46 +	1.7 =	b. 6.3 + .0	)28 + 5.42 =	c00	4 + 36.7 + 8 =

We may need to add a zero in subtraction of decimals.

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62.3	We cannot subtract the 7. 62.3 has no number in hundredths' pla	ace.
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- <u>- 25.87</u> We know that  $\frac{3}{10}$  and  $\frac{30}{100}$  are equivalent fractions. It follows that .3 and .30 are equivalent decimals.
- 62.30 Change .3 to .30 by adding a zero.
- 25.87 Subtract as whole numbers. Remember to borrow.
  - 36.43 Write the decimal point in the answer.

**1.10** Complete columns by adding zeros. Find the difference.

a.	3.4	48.5	6.8	7.03
	- 1.68	- 24.17	- 1.248	- 1.126
b.	.97	4.01	8.5	.5
	482_	263	- 2.116	382_