## Division Unit Test Study Guide:

Dear Parents/Guardians,
We will be having our Math Division Unit test on $\qquad$ . Students will be expected to

- Understand and demonstrate the relationship between multiplication and division
- Solve division problems with no remainder using related multiplication facts
- Solve division problems with 2 digits by 1 digit (with and without a remainder)
- Solve division problems with 3 digits by 1 digits (with and without a remainder)
- Solve word problems using division
- Know how to use an estimate to check your work in division

Please have them complete this study guide and return it by $\qquad$ for some Classroom Money.

Attached are some guides to help you practice.
Mrs. McIntyre \& Mr. Ostapowich
Ex) $45 \div 9=$

1) $27 \div 3=$
$\ldots 3=27$
2) $36 \div 9=$
$\ldots 9=36$
3) $6 \div 2=\underline{ } \times 2=6$
4) $18 \div 9=$ $\qquad$

$$
\ldots 9=18
$$

5) $48 \div 8=$ $\qquad$

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\ldots 8=48
$$

6) $8 \div 4=$ $\qquad$

$$
\ldots \times 4=8
$$

7) $63 \div 7=$
8) $9 \div 1=$ $\qquad$
9) 

$40 \div 8=$

$$
\times 8=40
$$

10) $3 \div 1=$ $\qquad$
$\qquad$ $\times 1=3$
11) $10 \div 2=$ $\times 2=10$
12) Write a corresponding multiplication fact for the following:
a) $36 \div 9$
b) $24 \div 4$
c) $45 \div 9$
13) Write a corresponding division fact for the following:
a) $7 \times 5$
b) $6 \times 8$
c) $4 \times 9$

## Division Worksheet



## DEAD MOUTKEYS SMEB BAD (D.M.S.B. aka Long Division) <br> 



## 5 Step Two: Multiply

$\mathbf{3 \times 2}=\mathbf{6}$, so we put the 6 below the 7 in the quotient.


Multiply: Multiply the divisor by the digit you just put into the quotient. Put the value under the first digit of the dividend.


4 Step Four: Bring Down
$\frac{2}{721}$
$\frac{-6 \downarrow}{12}$

Bring Down: Bring down the next digit in the dividend.
 steps until you have a remainder or are left with 0.


3 can go into 12 four times.
(Because $3 \times 4=12$ ).
So we put our $\mathbf{4}$ above the number we brought down (the 2).

Divide: Figure out how many times the divisor can go into the number you got from your last step. because we already multiplied with it.
$3 \times 4=12$, so we put the 12 below the last step.


Multiply: Multiply the divisor by the digit you just put into the quotient. You will ignore the number before it because you already used it in a previous step. Put the value under the lowest numbers.


Bring the $\mathbf{1}$ down. You


Bring Down: Bring down the next digit in the dividend.

(O) Step Two (Again): Multiply

Ignore the first two numbers of the quotient when multiplying because we already multiplied with them.
$3 \times 0=0$, so we put the 0 below the last step.


Multiply: Multiply the divisor by the digit you just put into the quotient. You will ignore the numbers before because you already used them in a previous step. Put the value under the lowest numbers.

Step Four (Again): Bring Down

$\frac{-6}{12}$ \}


Bring Down: Check to see if there are any more numbers in the dividend to bring down.

If the remaining number is smaller than your divisor, you have a remainder. Put it next to the quotient with an " r ".

Find each quotient and the remainder.
4)27
$9 \longdiv { 6 1 }$
$1 \overline{42}$
9) 37
4) 71

Find each quotient.
$4 \longdiv { 2 3 6 }$
$5 \longdiv { 1 6 5 }$
7) $\overline{518}$
6) $\overline{516}$

8 $\overline{448}$

Find each quotient and the remainder.

## Word Problems

1 ) Tom goes fishing with Mike. They catch 8 trout. If they equally split up the trout, how may will each one get?

2 ) There were a total of 12 baseball games during the three month season. If the games are equally divided, how many baseball games are played a month ?

3 ) Mike has 24 yellow balloons. He wants to give his six friends the same number of yellow balloons, how many will each friend get ?

4 ) Sam has 40 cents in his bank.
How many dimes does Sam have ?

5 ) Mike goes out to lunch with Keith and Dan. The total bill came to 15 dollars.
They decided to equally split up the bill, how much will each person have to pay ?

6 ) Fred has 20 dollars in five dollar bills. How many five dollars bills does he have ?

7 ) Sandy worked 20 hours in the last five days. Assuming that she worked the same amount of hours each day, how long did she work each day?

8 ) Melanie, Sally, and Keith have 12 pencils all together.
If the pencils are equally divided, how many will each person get?

9 ) A restaurant sold 28 salads last week.
How many salads on average were sold each day?

10 ) Benny was at the beach for five days and found 16 seashells.
He plans to give all of his seashells equally to his four friends.
How many seashells will each friend get?

## Solve each problem.

1) While playing at the arcade, Paul won thirty-nine tickets playing 'whack a mole' and fifteen tickets playing 'skee ball'. If he was trying to buy candy that cost nine tickets a piece, how many could he buy?
2) Vanessa was making baggies of cookies with six cookies in each bag. If she had twenty-five chocolate chip cookies and twenty-nine oatmeal cookies, how many baggies could she make?
3) For homework Sarah had seventeen math problems and twenty-eight spelling problems. If she can finish five problems in an hour how long will it take her to finish all the problems?
4) Isabel uploaded eleven pictures from her phone and seven from her camera to Facebook. If she sorted the pics into nine different albums with the same amount of pics in each album, how many pictures were in each of the albums?
5) A group of nine friends went into a restaurant. The chef already had thirty-four chicken wings cooked but cooked eleven more for the group. If they each got the same amount how many would each person get?
6) How do you estimate to check your work? Solve the following questions for the actual answers, then use an estimation strategy to check that your answer is reasonable.

| a) Actual: | Estimate: |
| :--- | :--- |
| $391 \div 5$ |  |
|  |  |
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