

# Name:

All rising **Math 7 students** must complete this packet over the summer. There will be **help sessions** offered to students who need assistance completing this assignment. Please check the Mark Twain Middle School website for information regarding the dates and times for this summer's sessions.

This assignment is due for

ALL Mark Twain Middle School

Math 7 students on the first day of school:

# August 26<sup>th</sup>, 2019

\*\*Students will be assessed during the first week of school on the topics in this packet\*\*

Operation	s with Fractions No Calculator
Adding and Subtracting	Solve. Show all work and circle your answer.
<ul> <li>Find a common denominator</li> <li>Add or subtract the numerators, but leave the denominator the same</li> </ul>	1) $3\frac{3}{4} + 2\frac{5}{8} =$
Example: $3\frac{2}{3} \leq ^{8}3\frac{2}{6}$	2) $7\frac{1}{3} - 2\frac{3}{4} =$
$\frac{-1\frac{5}{6} = 1\frac{5}{6}}{1\frac{3}{6} = 1\frac{1}{2}}$	3) $24\frac{1}{3} - 19\frac{2}{3} =$
Multiplying Fractions:	Solve. Show all work and circle your answer.
<ul> <li>Change mixed numbers to improper fractions</li> <li>Multiply straight across. Change improper fractions back into mixed numbers.</li> </ul>	4) $4\frac{1}{4} \times 7 =$
Example: $3\frac{1}{2} \times \frac{8}{10} =$	
$\frac{7}{2} \times \frac{8}{10} = \frac{56}{20} = \frac{14}{5} = 2\frac{4}{5}$ Dividing Fractions:	5) $28 \div 3\frac{1}{2} =$
<ul> <li>Change mixed numbers to improper fractions.</li> <li>Find the reciprocal of the 2<sup>nd</sup> fraction (flip it)</li> <li>Multiply straight across.</li> <li>Example: 2<sup>3</sup>/<sub>4</sub>÷<sup>5</sup>/<sub>6</sub> =</li> <li>↓ <sup>11</sup>/<sub>4</sub>÷<sup>5</sup>/<sub>6</sub> =</li> <li>↓ <sup>11</sup>/<sub>4</sub>×<sup>6</sup>/<sub>5</sub> = <sup>66</sup>/<sub>20</sub> = <sup>33</sup>/<sub>10</sub> = <sup>3</sup>/<sub>10</sub></li> </ul>	6) You have $2\frac{5}{8}$ pizzas left over. If you share them equally with 9 people, how much will each person get?



## How to convert a *fraction (1/8)* to a *decimal (.)*

L → Numerator
3 -> Denominator
L ÷ 8 = _????_
$1 \div 8 = 0.125$
L 3 L

## How to convert a *decimal (.)* to a *percent %.*

<b>1.Complete</b> the previous steps.	✤ 1 ÷ 8 = 0.125
Once you have a decimal you	
multiply your answer by 100.	✤ 0.125 x 100=
2.Solve.	0.125 x 100= 12.5
<b>3.Add</b> a % sign to your answer.	12.5= 12.5 <b>%</b>

## **PRACTICE**

FRACTION	DECIMAL	PERCENT	
1/8	0.125	12.5%	
1/4			
3/5			
4/9			
9/10			



2



2. Order the following numbers from greatest to least.

 $\frac{2}{3}$ , 68%, 0.61

3. Order the following numbers from greatest to least.

 $\frac{7}{8}$ , 88%, 0.85

Compare using > or <. Compare using < or > 4. 5. 0.310 0.275 A:  $\frac{3}{4}$ a.  $\frac{7}{12}$ 0.325 0.310 B: b.  $\frac{2}{3}$ <u>6</u> 7 0.325 0.275 C: c.  $\frac{3}{8} = \frac{6}{11}$ 0.310 0.325 D: d.  $\frac{1}{5}$   $\frac{1}{4}$ Which digit makes the statement true? 6.

#### $6.8 \Box 9 \ge 6.849$

а: 0 в: 2 с: 3 р: 4

## **Absolute Value**



Which of the following is true? A: |43| = -43

**B**: |-75| = -75

c: 
$$-32 = |32|$$

**D**: 97 = |-97|

# Comparing, Ordering, and Representing Integers

**Integer:** whole numbers and their opposities



2. Identify each statement that is true.

-5 > -8

 $-1 \leq -6$ 

 $-7 \ge -4$ 

3 < -9

-3 > 2

 $10 \ge 8$ 

A:

B:

C:

D:

E:

F:

1. Circle all of the situations below that could be represented by a negative integer.

#### 3. Circle all of the integers below:



4.

### What number is represented by point *P* on the number line?



An elevator starts on the bottom floor and goes to the 5th floor. It then goes down 3 floors and stops. Which number line best models the position of the elevator?



Identify which number is greater by using < (less than) or > (greater than)



# Order of Operations





### Directions: Show all work. Circle your answer.

1. 
$$9-2^3$$
 6.  $(8-5)^2-4\cdot\frac{1}{4}$ 

2.  $72 - (7 + 8) \bullet 4$ 

What is the value of  $\frac{2^2-1}{2}$ ? 7.

Your answer must be in the form of an improper fraction.

Example:

- 3.  $6-3^2 \div 3 \bullet 2$
- 4.  $5^2 4 \bullet (5 3)$

5.  $\frac{6+30 \div 3}{8 \div 4 \bullet 2}$ 

- 8. When simplifying the following, using order of operations, which operation should be performed first?  $25 + 8 \div 2 \cdot 4 - 3$ 
  - 25 + 8A:
  - 8÷2 B:
  - 2.4 C:
  - 4 3D: