

## Incoming 7<sup>th</sup> Graders

Math 7  
Summer 2018

Welcome to Math 7! In order to keep your numbers skills fresh over the summer, please complete the summer math work. It will be collected the first week of school – FOR A GRADE.

Each week, students are to work on:

- **Number of the Day** sheets
- **Fact practice** - Students need to know addition, subtraction, multiplication, and division facts up to 12. Summer is a great time to review these skills. Some drill pages are attached in the packet. There are also many online games and resources that can be used as well as flashcards.
- Each student should complete one hour of **IXL math** work during the months of June, July, and August (each) over their summer break – working on grade level skills. Please use your school account so progress can be recorded and complete the attached IXL sheet.

For the number of the day sheets, these reviews basic skills that will need to be mastered before you begin 7<sup>th</sup> grade. The numbers to be used are in the thought bubble at the top of the page. You do not need to do the work on the template sheets, but please do all work in a notebook OR on loose-leaf paper. **All work must be shown (no calculators).** Please label what page you are on, what question you are on, and what the number if the day is. Please use a pencil!

Have a great summer. I look forward to seeing you in the fall!

Sr. Elise, O.P.

The following is a suggested time spacing:

July 2 – Fraction of the Day (A) and Problem of the Day (H)

July 9 - Decimal of the Day (C)

July 16 – Fraction of the Day (B)

July 23 – Integer of the Day (F)

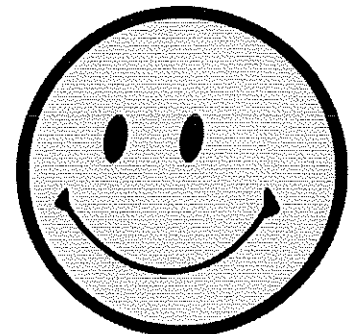
July 30 – Mixed Number of the Day (D)

August 6 - Problem of the Day (I)

August 13 - Integer of the Day (G)

August 20 - Problem of the Day (K)

August 27 - Mixed Number of the Day (E)



Dear Students and Parents,

For all incoming math students in grades 6-8, students should complete the attached packet as well as complete IXL computer time. Each student should complete one hour of math work during the months of June, July, and August (each) over their summer break – working on grade level skills.

Enjoy the summer!

Sr. Elise, O.P.

Please record your IXL work below:

	Skills I worked on:	What is my Smart Score in these skills?
June		
July		
August		

# EXAMPLE

Name

Date

Fraction-A

$$\frac{2}{3}$$

①  $\frac{2}{3} + \frac{1}{2}$

$$\frac{4}{6} + \frac{3}{6} = \frac{7}{6} = \boxed{\frac{11}{6}}$$

②  $\frac{2}{3} - \frac{1}{8}$

$$\frac{16}{24} - \frac{3}{24} = \boxed{\frac{13}{24}}$$

③  $\frac{2}{3} \cdot \frac{2}{3} = \boxed{\frac{4}{9}}$

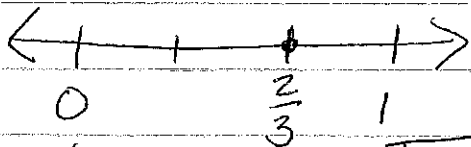
④  $\frac{2}{3} \div \frac{1}{4}$

$$\frac{2}{3} \cdot \frac{4}{1} = \frac{8}{3} = \boxed{2\frac{2}{3}}$$

⑤ two-thirds

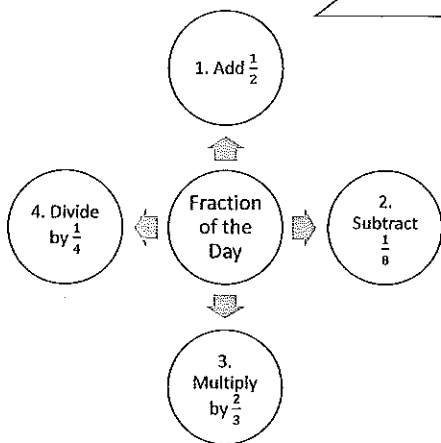
⑥  $\frac{2}{3} = \frac{4}{6} = \frac{8}{12}$

⑦



⑧  $\left(\frac{2}{3}\right)^2 = \frac{2}{3} \cdot \frac{2}{3} = \boxed{\frac{4}{9}}$

## Fraction of the Day - A



Fractions:

$$\frac{3}{4} \quad \frac{2}{6} \quad \frac{5}{12} \quad \frac{3}{9}$$

5. Write it in Word Form

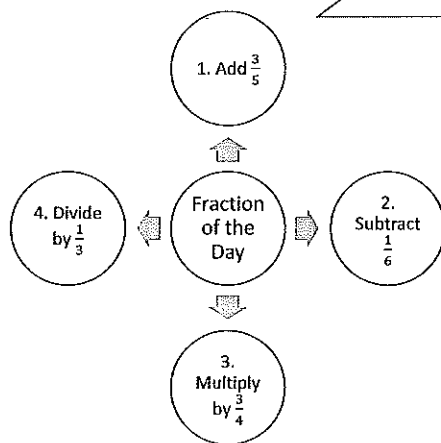
6. Make two equivalent fractions

8. Square it

7. Put the fraction on a number line between 0 and 1



## Fraction of the Day - B



Fractions:

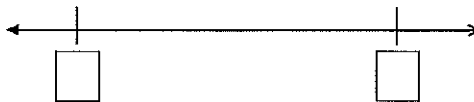
$$\frac{6}{5} \quad \frac{3}{12} \quad \frac{5}{15} \quad \frac{3}{4}$$

5. Write it in Word Form

6. Make two equivalent fractions

8. Square it

7. Put the fraction on a number line between 0 and 1



### Decimal of the Day - C

#### Decimals:

6.32  
5.99  
7.06  
5.09

1. Add  
6.01

Decimal  
of the  
Day

2. Subtract  
3.99

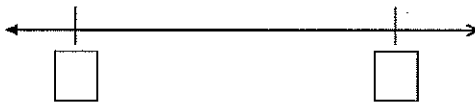
5. Write it in  
Word Form

6. Square it

4. Divide  
by 4

3. Multiply  
by 3.1

7. Put the decimal on a number line between two whole numbers



### Mixed Number of the Day - D

#### Mixed Numbers:

$1\frac{6}{5}$   $2\frac{3}{12}$   $3\frac{5}{15}$   $4\frac{3}{4}$

1. Add  
 $6\frac{1}{2}$

Number  
of the  
Day

2. Subtract  
 $1\frac{2}{7}$

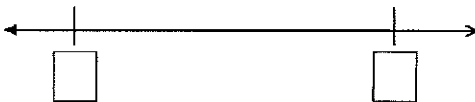
5. Write it in  
Word Form

6. Square it

4. Divide  
by  $3\frac{2}{5}$

3. Multiply  
by  $2\frac{2}{3}$

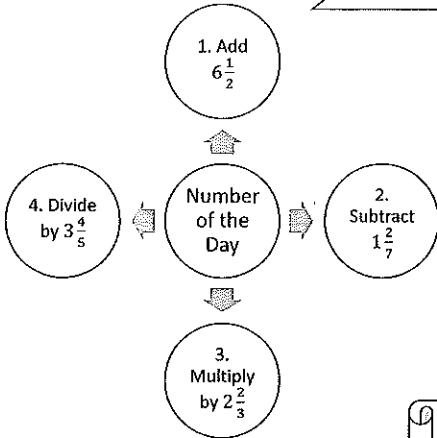
7. Put the mixed number on a number line between two whole numbers



## Mixed Number of the Day - E

### Mixed Numbers:

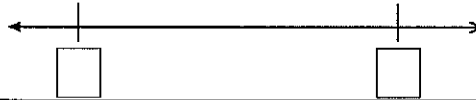
$$1\frac{6}{5} \quad 2\frac{3}{12} \quad 3\frac{5}{15} \quad 4\frac{3}{4}$$



5. Write it in Word Form

6. Square it

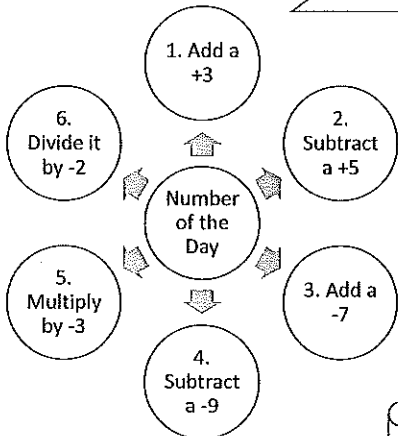
7. Put the mixed number on a number line between two whole numbers



## Integer of the Day - F

### Integers:

$$-20 \quad 16 \quad -30 \quad 22$$

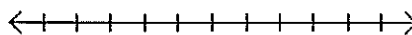


7. Give the absolute value of the integer

8. Square it

9. Cube it

10. Put the integer on a number line with four other points



## Integer of the Day - G

**Integers:**

-12 27 -33 15

1. Add a +12

2. Subtract a +16

Number of the Day

3. Add a -3

6. Divide it by -3

5. Multiply by -4

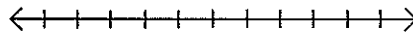
4. Subtract a -2

7. Give the absolute value of the integer

8. Square it

9. Cube it

10. Put the integer on a number line with four other points



## Problem of the Day - H (use order of operations)

Compute. Watch the order of operations.

7.  $+16 - -279 \div +31$

8.  $-226 - +190 \div +10 + -28$

9.  $+80 \div (+93 + -77) + -304$

10.  $+67 + (+68 - +80)^2 \times -30$

11.  $7 - (-9 - 5) \times 2^2$

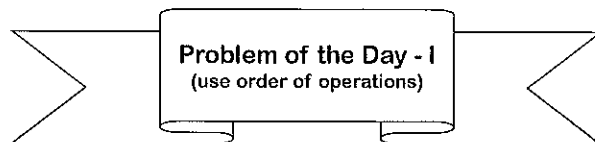
12.  $-16 - +4 \div (+1 + +1)^2$

13.  $-87 - +60 \div +15 + (-40 + +36)^2$

14.  $+24(+45 + -36) - -21 - +38 \times +3$

15.  $(-24 \div -3)(-20 \div +4) \div +2$

16.  $-16 - -14 + -14 - -16 + -8 + +3$



Use the order of operations to compute. Justify each step in the process.

10.  $4 \times 8 \times 3 - 2$

11.  $18 \div 6 \div 3 - 1$

12.  $9 + 3 \times 2 + 4^2$

13.  $12 - 3 \times 1 + 2^3$

14.  $(40 \div 4) + 5 - 3 + [0.6 \times 40]$

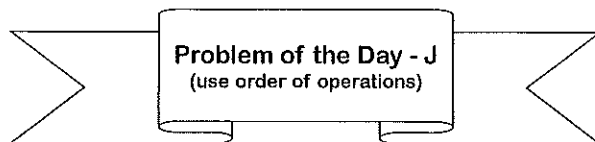
15.  $5 + (34 - 2) \div 8 + (1.7 + 2)$

16.  $10 \times 3 + (48 \div 6)^2 \times 0.4$

17.  $(50 \div 10)^3 \times 2 + 6 \times 0.6$

18.  $\frac{7+3}{2^2+1} - [5 \div 5 \times 2]$

19.  $(24 + \frac{1 \times 7}{3^2 - 2^3} - 6) \div 5^2$



Simplify each mathematical expression.

1.  $6 \times \frac{1}{2} \div (\frac{1}{4})^2$

2.  $9 \times \frac{1}{3} \div (\frac{1}{2})^3$

3.  $\frac{5}{6} + \frac{1}{6} - 0.5$

4.  $\frac{4}{9} - \frac{1}{9} + \frac{2}{3}$

5.  $\frac{1}{8} + 0.5 \times 16$

6.  $1\frac{2}{3} - 6 \times (\frac{1}{6})^2$

7.  $(1\frac{1}{4} \times 4) - (\frac{1}{3})^2$

8.  $(8 \div 1\frac{1}{3}) + 6^2$

9.  $(1\frac{2}{3} \times 1\frac{1}{2}) \div 5$

10.  $(10 \div 1\frac{2}{3}) \times \frac{7}{8}$

11.  $(\frac{2}{3})^2 \times (1\frac{1}{2} + 1\frac{3}{4})$

12.  $1\frac{1}{3} \times (2\frac{1}{2} - 1\frac{1}{4})^2$









## Division Facts (B)

Find each quotient.

$70 \div 7 =$

$49 \div 7 =$

$54 \div 6 =$

$81 \div 9 =$

$60 \div 10 =$

$84 \div 12 =$

$8 \div 4 =$

$20 \div 4 =$

$18 \div 6 =$

$66 \div 6 =$

$99 \div 9 =$

$90 \div 9 =$

$50 \div 5 =$

$84 \div 7 =$

$33 \div 3 =$

$44 \div 11 =$

$100 \div 10 =$

$24 \div 6 =$

$96 \div 12 =$

$30 \div 10 =$

$12 \div 4 =$

$27 \div 9 =$

$10 \div 5 =$

$11 \div 11 =$

$110 \div 10 =$

$42 \div 7 =$

$99 \div 11 =$

$22 \div 11 =$

$11 \div 1 =$

$5 \div 1 =$

$77 \div 7 =$

$55 \div 5 =$

$14 \div 7 =$

$60 \div 12 =$

$48 \div 4 =$

$45 \div 5 =$

$4 \div 4 =$

$44 \div 4 =$

$88 \div 11 =$

$12 \div 1 =$

$40 \div 5 =$

$60 \div 5 =$

$15 \div 5 =$

$55 \div 11 =$

$20 \div 5 =$

$50 \div 10 =$

$108 \div 9 =$

$3 \div 1 =$

$96 \div 12 =$

$8 \div 1 =$

$11 \div 1 =$

$45 \div 5 =$

$28 \div 7 =$

$54 \div 6 =$

$8 \div 2 =$

$22 \div 2 =$

$4 \div 4 =$

$56 \div 7 =$

$24 \div 3 =$

$25 \div 5 =$

$32 \div 8 =$

$36 \div 3 =$

$9 \div 9 =$

$22 \div 11 =$

$2 \div 1 =$

$108 \div 12 =$

$35 \div 5 =$

$6 \div 1 =$

$60 \div 12 =$

$16 \div 8 =$

$36 \div 12 =$

$9 \div 1 =$

$121 \div 11 =$

$8 \div 4 =$

$9 \div 3 =$

$72 \div 12 =$

$4 \div 1 =$

$77 \div 7 =$

$10 \div 2 =$

$36 \div 4 =$

$24 \div 8 =$

$6 \div 3 =$

$30 \div 3 =$

$16 \div 4 =$

$70 \div 7 =$

$42 \div 7 =$

$44 \div 11 =$

$144 \div 12 =$

$18 \div 9 =$

$99 \div 9 =$

$70 \div 10 =$

$18 \div 3 =$

$12 \div 6 =$

$21 \div 7 =$

$30 \div 10 =$

$24 \div 4 =$

$14 \div 2 =$

$15 \div 3 =$

$132 \div 11 =$

$24 \div 12 =$

## Division Facts (A)

Find each quotient.

$6 \div 3 =$

$9 \div 3 =$

$5 \div 5 =$

$25 \div 5 =$

$2 \div 2 =$

$42 \div 6 =$

$56 \div 7 =$

$6 \div 6 =$

$96 \div 8 =$

$16 \div 8 =$

$18 \div 3 =$

$45 \div 9 =$

$20 \div 2 =$

$120 \div 10 =$

$18 \div 2 =$

$60 \div 6 =$

$56 \div 8 =$

$32 \div 8 =$

$12 \div 2 =$

$24 \div 8 =$

$77 \div 11 =$

$7 \div 7 =$

$30 \div 5 =$

$8 \div 8 =$

$16 \div 4 =$

$66 \div 11 =$

$12 \div 3 =$

$30 \div 3 =$

$20 \div 5 =$

$72 \div 12 =$

$9 \div 1 =$

$14 \div 2 =$

$21 \div 3 =$

$12 \div 6 =$

$30 \div 6 =$

$63 \div 7 =$

$1 \div 1 =$

$9 \div 9 =$

$54 \div 9 =$

$108 \div 9 =$

$132 \div 12 =$

$28 \div 4 =$

$6 \div 1 =$

$10 \div 2 =$

$132 \div 11 =$

$36 \div 6 =$

$3 \div 3 =$

$12 \div 12 =$

$48 \div 6 =$

$36 \div 12 =$

$2 \div 1 =$

$24 \div 12 =$

$72 \div 6 =$

$8 \div 2 =$

$3 \div 1 =$

$24 \div 2 =$

$15 \div 3 =$

$36 \div 9 =$

$40 \div 8 =$

$22 \div 2 =$

$40 \div 10 =$

$36 \div 4 =$

$21 \div 7 =$

$35 \div 5 =$

$10 \div 10 =$

$40 \div 4 =$

$4 \div 1 =$

$7 \div 1 =$

$110 \div 11 =$

$24 \div 4 =$

$8 \div 1 =$

$48 \div 12 =$

$72 \div 8 =$

$121 \div 11 =$

$4 \div 2 =$

$36 \div 3 =$

$50 \div 10 =$

$63 \div 9 =$

$35 \div 7 =$

$72 \div 9 =$

$20 \div 10 =$

$144 \div 12 =$

$80 \div 8 =$

$80 \div 10 =$

$27 \div 3 =$

$108 \div 12 =$

$48 \div 8 =$

$24 \div 3 =$

$88 \div 8 =$

$16 \div 2 =$

$70 \div 10 =$

$64 \div 8 =$

$28 \div 7 =$

$33 \div 11 =$

$6 \div 2 =$

$120 \div 12 =$

$90 \div 10 =$

$10 \div 1 =$

$18 \div 9 =$

$32 \div 4 =$

## Division Facts (C)

Find each quotient.

$72 \div 8 =$	$10 \div 10 =$	$27 \div 9 =$	$48 \div 4 =$
$60 \div 10 =$	$33 \div 3 =$	$132 \div 12 =$	$5 \div 1 =$
$60 \div 5 =$	$20 \div 10 =$	$11 \div 11 =$	$12 \div 3 =$
$20 \div 4 =$	$96 \div 8 =$	$10 \div 5 =$	$49 \div 7 =$
$27 \div 3 =$	$5 \div 5 =$	$35 \div 7 =$	$48 \div 12 =$
$10 \div 1 =$	$24 \div 2 =$	$88 \div 8 =$	$55 \div 11 =$
$7 \div 1 =$	$33 \div 11 =$	$21 \div 3 =$	$1 \div 1 =$
$12 \div 1 =$	$120 \div 10 =$	$63 \div 7 =$	$90 \div 9 =$
$12 \div 2 =$	$84 \div 12 =$	$64 \div 8 =$	$110 \div 10 =$
$32 \div 4 =$	$7 \div 7 =$	$56 \div 8 =$	$15 \div 5 =$
$84 \div 7 =$	$6 \div 6 =$	$90 \div 10 =$	$18 \div 2 =$
$120 \div 12 =$	$20 \div 2 =$	$30 \div 6 =$	$14 \div 7 =$
$66 \div 11 =$	$3 \div 3 =$	$12 \div 12 =$	$55 \div 5 =$
$80 \div 8 =$	$40 \div 5 =$	$110 \div 11 =$	$30 \div 5 =$
$16 \div 2 =$	$40 \div 10 =$	$50 \div 5 =$	$40 \div 4 =$
$77 \div 11 =$	$18 \div 6 =$	$80 \div 10 =$	$48 \div 8 =$
$72 \div 6 =$	$100 \div 10 =$	$60 \div 6 =$	$28 \div 4 =$
$45 \div 9 =$	$81 \div 9 =$	$36 \div 9 =$	$99 \div 11 =$
$12 \div 4 =$	$63 \div 9 =$	$72 \div 9 =$	$88 \div 11 =$
$44 \div 4 =$	$54 \div 9 =$	$40 \div 8 =$	$24 \div 6 =$
$66 \div 6 =$	$6 \div 2 =$	$2 \div 2 =$	$48 \div 6 =$
$36 \div 6 =$	$8 \div 8 =$	$42 \div 6 =$	$4 \div 2 =$
$36 \div 6 =$	$32 \div 4 =$	$56 \div 8 =$	$27 \div 3 =$
$40 \div 5 =$	$90 \div 9 =$	$32 \div 8 =$	$96 \div 12 =$
$10 \div 10 =$	$72 \div 6 =$	$16 \div 2 =$	$48 \div 6 =$