



# Summer Resources

Middle School Math Department  
Robinson Secondary School

## Math 7

This packet contains practice problems that can be used to help you prepare for your math course in the fall.

### Top 5 Topics

The Math 7 teachers have selected these topics as the "Top 5" to review before you begin Math 7.

1. 1-10 Multiplication and Division Facts  
(flash cards are a great resource)
2. Fraction Operations (Rational Numbers)
3. Order of Operations
4. Integer Operations
5. Solving One-Step Equations

### Other Resources

Access videos from the following site if you need help with the content in this packet:

<https://sites.google.com/fcpsschools.net/rms-math-dept-resource-site/rms-math-department?authuser=1>

If you prefer, you could also use one of these workbooks. No workbook is perfectly aligned to a math course, but these will provide a variety of problems to keep your math skills sharp!

McGraw-Hill Education Math Grade 6, ISBN-10: 0071747303

Summer Bridge Activities, Grades 6-7, ISBN-10: 1620576139

Pre-Algebra Concepts (Mastering Essential Math Skills), ISBN-10: 0966621190

Name: \_\_\_\_\_ Elementary School: \_\_\_\_\_

# Rising Math 7 Students

**SHOW ALL WORK WHERE POSSIBLE. There are two sections: a non-calculator and a calculator section.**

**DO YOU KNOW YOUR MULTIPLICATION TABLES FROM 1 - 12?**



The list of websites below contains tutorials, practice, and quizzes on the topics in this packet and more!

- <http://www.math.com>
- <http://www.mathgoodies.com/lessons>
- <http://education.jlab.org/solquiz/>

**REMINDER: NO CALCULATORS, please.**

Find the answer.

- Remember that you need to have a common denominator when adding and subtracting fractions and/or mixed numbers.

1)  $\frac{5}{8} + \frac{1}{4}$

2)  $\frac{8}{9} - \frac{5}{6}$

3)  $\frac{8}{9} \bullet \frac{4}{5}$

4)  $\frac{2}{3} \div \frac{1}{4}$

5) Anna works in a department store and earns \$7.60 per hour. Last week she worked 39.5 hours. How much money did she earn for the work? —

6) Brandon spent  $\frac{1}{4}$  of his time studying math and  $\frac{1}{6}$  of his time studying history. How much of his study time did he spend studying math and history?

7) A park ranger takes a group of campers on a  $5\frac{1}{2}$  mile hike. They have already hike 2 and  $\frac{1}{3}$  miles. How far do they have yet to hike?

8) Solve using order of operations:  $11 \div (12 - 8 \bullet 3)$

9) Solve using order of operations:  $(3 + 4 \div 2) \bullet 5$

10)

**FILL IN the blanks - Equivalent Fractions, Decimals, & Percents**

<b>Fraction</b>	<b>Decimal</b>	<b>Percent</b>
<b>1/5</b>		<b>20%</b>
<b>2/5</b>	<b>0.4</b>	
	<b>0.6</b>	<b>60%</b>
<b>4/5</b>	<b>0.8</b>	
<b>1/4</b>		<b>25%</b>
<b>2/4 or 1/2</b>		<b>50%</b>
	<b>0.75</b>	<b>75%</b>

**Remember that  $\frac{1}{1}$  is 1 (which is equal to 100%)**

**Put the rational numbers in order from least to greatest. It would help you to put all rational numbers in the same form (decimal)**

11)  $3\frac{1}{2}$ ;  $3\frac{1}{4}$ ;  $3\frac{2}{5}$

12) -1, -12, -7, -9, -3

13) 19.16, 14.9, 19.4

14 - 17) Use an integer to describe each situation.

spending \$6 \_\_\_\_\_

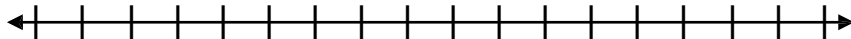
finding a quarter \_\_\_\_\_

climbing up the ladder 10 feet \_\_\_\_\_

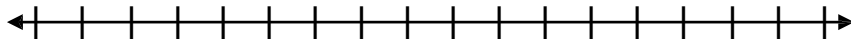
10° below zero \_\_\_\_\_

**Use the number line to order the integers from least to greatest. Make sure you put intervals on the number line.**

18) 3, -5, 4, -4, -7, 0



19) 1, 3, -7, -6, 5, -2



20 - 23) Simply each expression.

$$(-8)(4)$$

$$\frac{-64}{-8}$$

$$(-15) + (-7) + (9)$$

$$43 - (-19)$$

**You can use calculators from this point forward.**

**Make sure you show any work that supports your knowledge of these concepts.**

24) Find the mean of 59, 42, 34, 56, and 34.

25) Find the mode of 97, 82, 80, 92, 80.

26) Find the median of 19, 35, 21, 27, 20.

**Find the value of the variable in each problem. Show your work.**

27)  $x + 12 = 35$

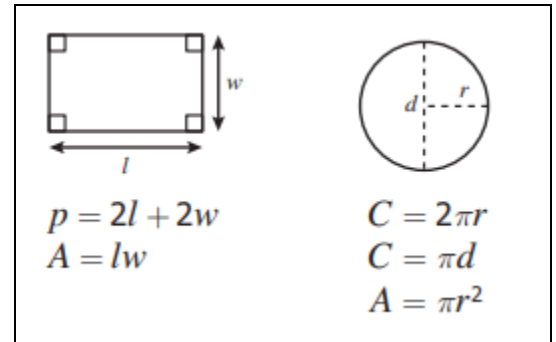
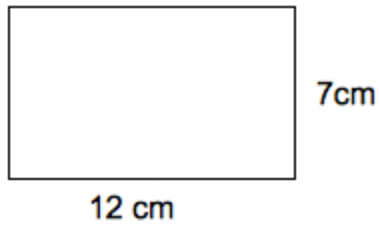
28)  $y - 21 = 31$

29)  $4x = 8$

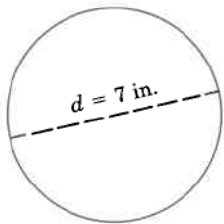
30)  $y \div 3 = 7$

Find the perimeter AND area of each shape.

31)



32)



Circle all of the ratios that form a proportional relationship.

33)

$\frac{4}{2}$  and  $\frac{20}{6}$

$\frac{3}{2}$  and  $\frac{18}{8}$

$\frac{4}{3}$  and  $\frac{8}{6}$

$\frac{6}{9}$  and  $\frac{2}{3}$

Answers:

1.  $\frac{7}{8}$

2.  $\frac{1}{18}$

3.  $\frac{32}{45}$

4.  $\frac{8}{3}$  or  $2\frac{2}{3}$

5.  $-\frac{11}{12}$

6. 25

7. \$300.20

8.  $\frac{5}{12}$

9.  $\frac{19}{6}$  or  $3\frac{1}{6}$

10.

Fraction	Decimal	Percent
$\frac{1}{5}$	<b>0.2</b>	20%
$\frac{2}{5}$	0.4	<b>40%</b>
<b><math>\frac{3}{5}</math></b>	0.6	60%
$\frac{4}{5}$	0.8	<b>80%</b>
$\frac{1}{4}$	<b>0.25</b>	25%
$\frac{2}{4}$ or $\frac{1}{2}$	<b>0.5</b>	50%
<b><math>\frac{3}{4}</math></b>	0.75	75%

11.  $3\frac{1}{4}$ ;  $3\frac{2}{5}$ ;  $3\frac{1}{2}$

12. -12, -9, -7, -3, -1

13. 14.9, 19.16, 19.4

14–17. -6; 25; 10; -10

18. -7, -5, -4, 0, 3, 4

19. -7, -6, -2, 1, 3, 5

20–23. -32; 8; -13; 62

24. 45

25. 80

26. 21

27.  $x = 23$

28.  $y = 52$

29.  $x = 2$

30.  $y = 21$

31.  $P = 38$  cm;  $A = 84$  cm<sup>2</sup>

32.  $C = 21.98$  in; 153.86 in<sup>2</sup>

33.  $\frac{4}{3}$  and  $\frac{8}{6}$      $\frac{6}{9}$  and  $\frac{2}{3}$