



Southington Public Schools

K-12 Curriculum Coordinators

Betsy Chester

Language Arts/Reading
(860) 628-3223 ext. 236

Dale A. Riedinger

Science/Mathematics
(860) 628-3223 ext. 340

Dear Middle School Math Students,

Attached you will find a comprehensive set of math problems which reflect the math skills you have worked on this year and should have mastered. It is the goal of the Math Department that you have a successful and enjoyable transition into your next grade level math course. We need you to practice these math skills and we encourage you to keep up these skills in several ways: first through solving the problems in this packet and second by visiting the websites that are listed after each section of the packet.

If you lose the packet you can find a copy at your MS website homepage or find the same packets at:

<http://www.southingtonschools.org>

ABOUT US

CURRICULUM and INSTRUCTION

K-8 MATH

GRADES 6-8

Summer Packets

Also there will be a limited number of copies in the Main office of each school.

Upon returning to school, your teacher will check your packets for completion and count it as your first homework grade. In order to receive credit you must attempt each problem and show any work needed to complete it. **NO CALCULATOR** may be used.

If you have a question or concern about a problem note that on your packet and it will be reviewed during the first few days of school. After you review this packet in class there will be a short assessment based on these skills. As an additional means of support, I will be happy to help any student who emails a concern they are having. My email address is:

rburdick@southingtonschools.org

Please do your **BEST** work!

Sincerely,

Rosemary Burdick
Middle School Math Specialist

Name: _____

Directions: Please show all your work. No Calculator

If you are having trouble with any part of this summer packet please visit:

www.mathplayground.com

click on Math Videos

WHOLE NUMBERS

A: Round to the underline place-value position. (No Calculators)

1) 267

2) 4091

3) 43,728

4) 9,798

5) 532,795

B: Addition (No Calculator)

1) $72 + 65 =$

2) $62 + 83 =$

3) $237 + 579 =$

4) $1482 + 3497 =$

5) $425 + 376 + 124 =$

C: Subtraction (No Calculator)

1) $800 - 145 =$

2) $695 - 132 =$

3) $5690 - 792 =$

Directions: Show all your work. No Calculator.

D: Multiplication

1) $218 \times 83 =$

2) $3265 \times 72 =$

3) $7903 \times 3 =$

E: Division (No Calculator)

1) $4 \overline{)508}$

2) $5 \overline{)3255}$

F: Story Problems

A truck carries 278 crates. Each crate holds 45 pounds of fruit. How many pounds of fruit does the truck carry?

Underline the question.

Write 2 facts.

What operation will you use to solve?

Solve:

Gary buys backpacks to sell at his sporting goods store. Each backpack cost \$38. How many backpacks can he buy for \$266?

Underline the question.

Write 2 facts.

What operation will you use to solve the problem?

Solve:

Want some extra practice? VISIT:

www.mathplayground.com

Click on Math Games:

TRY: Number Invaders
Pumpkin Multiples
Space Racer X

Directions: Show all your work. No calculator.

G: Fractions

Equivalent Fractions

1) $\frac{4}{9} = \frac{12}{\quad}$

2) $\frac{3}{8} = \frac{6}{\quad}$

3) $\frac{7}{56} = \frac{\quad}{8}$

Simplifying

1) $\frac{4}{6}$

2) $\frac{6}{12}$

3) $\frac{8}{10}$

4) $\frac{3}{12}$

Write as a Mixed Number

1) $\frac{15}{10}$

2) $\frac{31}{8}$

3) $\frac{21}{5}$

1. Use the words *IMPROPER FRACTIONS* in a sentence that shows you know the meaning of the words

Write as an Improper Fraction

2) $1\frac{7}{8}$

3) $5\frac{1}{3}$

4) $8\frac{5}{11}$

Directions: Show all your work. No Calculator

Multiplying

1) $\frac{1}{2} \times \frac{6}{7}$

2) $\frac{9}{2} \times \frac{1}{2}$

3) $\frac{5}{8} \times \frac{3}{4}$

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

5) $1\frac{1}{2} \times 6$

Division

1) $\frac{2}{5} \div \frac{5}{8}$

2) $\frac{3}{8} \div \frac{3}{4}$

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

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

Adding / Subtracting Mixed Numbers

1)
$$\begin{array}{r} 13 \\ + 9\frac{7}{8} \\ \hline \end{array}$$

2)
$$\begin{array}{r} 8\frac{2}{5} \\ + 4\frac{4}{15} \\ \hline \end{array}$$

3)
$$\begin{array}{r} 18\frac{3}{10} \\ - 7\frac{4}{5} \\ \hline \end{array}$$

4)
$$\begin{array}{r} 18\frac{1}{2} \\ - 9\frac{7}{8} \\ \hline \end{array}$$

Having a Problem remembering how to do anything?

Visit: www.mathplayground.com

Math videos

or

Math CAST

H: Decimals: SOLVE EACH

Multiplication

1) 0.8×6

2) 1.9×5

3) 4×0.8

4) 0.2×0.8

Division

5) $147.2 \div 8$

6) $5.69 \div 7$

7) $.025 \div .5$

Directions: Show all your work. No Calculator.

I: Percent: SOLVE EACH

- 1) 30% of \$320 is _____
- 2) _____ % of 170 is 17
- 3) 5% of what number is 10 _____

MORE PERCENT PRACTICE? VISIT: www.mathplayground.com

**Math at the Mall
or
Percent Shopping**

J: Prime or Composite: Write next to each number if it is Prime or Composite

7 _____

81 _____

12 _____

23 _____

K: Prime Factorization: Use a factor tree and find the PRIME factors of these two numbers



Directions: Show all your work. No Calculator

L: Order of Operations: SOLVE EACH

$$4 \times (5^2 - 12) - 6 =$$

$$9 + 7 \times (15 + 3) \div 3^2 =$$

Other Websites to use:

www.funbrain.com

Math Arcade
ALL GAMES

<http://www.iq.poquoson.org/2008vasol/6math/6math08.htm>

This site is from Virginia, yet very good to review with.

<http://www.ixl.com/math/grade/sixth/>

On-line math practice