

6th Grade
modified

Brannock
Copes
Royse

NTI DAY #7

(weather-closed school day)

PACKET SEVEN

(Math)

General Directions:

Due to weather, Harrison County Schools are closed. In an effort to utilize this day on the school calendar, your child is assigned and should work on this "packet" of school work today. It will count as a grade for this subject. The work attached is specific to the subject listed above. Please contact your child's teacher of this subject at 234-7123 in the event you/your student have questions on this packet. Staff and teachers reported to HCMS today and are available should you have questions.

While this is DUE two (2) weeks after our return to school, we **strongly encourage** students to turn it in to their teacher **as soon as it's complete** (soon after the NTI day) to avoid it being lost, eaten by the family pet, burned to keep warm, etc ☺

Name: _____



Converting Fractions, Decimals, and Percents

	fraction	decimal	percent
a.	$\frac{15}{100}$	0.15	
b.	$\frac{73}{100}$		73%
c.			39%
d.	$\frac{4}{100}$		
e.		0.77	
f.			46%
g.	$\frac{50}{100}$		
h.		0.06	
i.			80%
j.	$\frac{26}{100}$		

Name: _____ Class: ___ Date: _____

GCF and LCM WORD PROBLEMS

Read each problem and write GCF (Greatest Common Factor) or LCM (Least Common Multiple) in the box to show that you understand the strategy it needs. On a separate piece of paper show your working out, with the number of the question. Record your answers on *this* sheet, including your *unit of measurement* (e.g., inches, miles, dogs, cakes).

1. Joanne is campaigning for class president and plans to distribute some campaign materials: 20 flyers and 16 buttons. She wants each classroom to receive an identical set of campaign materials, without having any materials left over. What is the greatest number of classrooms Joanne can distribute materials to?

2. Serena wants to create snack bags for a trip she is going on. She has 6 granola bars and 10 pieces of dried fruit. If the snack bags should be identical without any food left over, what is the greatest number of snack bags Serena can make?

3. Matthew goes hiking every 12 days and swimming every 6 days. He did both kinds of exercise today. How many days from now will he go both hiking and swimming again? _____
4. Mandy is making emergency-preparedness kits to share with friends. She has 12 bottles of water and 16 cans of food, which she would like to distribute equally among the kits, with nothing left over. What is the greatest number of kits Mandy can make?
5. A radio station is having a promotion in which every 12th caller receives a free concert ticket and every 15th caller receives a limo ride. Which caller will be the first one to win both?

6. A club has 16 girls and 8 boys as members. The president wants to break the club into groups, with each group containing the same combination of girls and boys. The president also wants to make sure that no one is left out. What is the greatest number of groups the president can make?

7. Ariel is making flower arrangements. He has 7 roses and 14 daisies. If Ariel wants to make all the arrangements identical and have no flowers left over, what is the greatest number of flower arrangements that he can make?

8. Wilma is thinking of a number that is divisible by both 17 and 8. What is the smallest possible number that Wilma could be thinking of?

GCF and LCM Word Problems

1.

2.

3.

4.

5.

Name _____

WORD PROBLEMS--RATES #1

Directions: Find the rate in each problem below. There are several ways to solve *rate problems*. The simplest strategy is to simply divide the data. The key is to divide the data in the correct order. If the question asks you to find the *miles/hour*, then you should find the quotient of the miles divided by the hours, *not* the hours divided by the miles.

- 1) John spent \$36 to buy 4 basketballs. What was the price per basketball? $\frac{36}{4}$ 1) \$9
- 2) Tracey ran 1,000 meters in 5 minutes. How many meters/minute did she run? 2) _____
- 3) Mike paid \$68 for 4 pizzas. How much did he pay per pizza? 3) _____
- 4) Isabella flew 600 miles in 120 minutes. How many miles per minute did she fly? 4) _____
- 5) In 3 days, the temperature dropped 27 degrees. How many degrees per day did the temperature drop? 5) _____
- 6) Ava read 110 books in 11 months. How many books per month did she read? 6) _____
- 7) Jayden filled his 290 gallon pool with water in 10 hours. How many gallons per hour did he use? 7) _____
- 8) Addison drove 1,080 miles in 20 hours. What was her speed in miles per hour? 8) _____
- 9) Jackson made 252 calls in 36 days. What is the average number of calls he made in a day? 9) _____
- 10) Hailey's plane climbed 4,500 feet in 90 seconds. How fast did her plane climb every second? 10) _____

Equivalent ratios

Find the missing number

1) $2 : 1 = \underline{20} : 10$

$$\begin{array}{r} 2 : 1 \\ \times \quad \times 10 \\ \hline ? : 10 \end{array}$$

What you do to one side you have to do to the other. $2 \times 10 = 20$

2) $6 : 1 = 18 : \underline{\quad}$

3) $4 : 10 = \underline{\quad} : 80$

4) $6 : 9 = 48 : \underline{\quad}$

5) $1 : 7 = 10 : \underline{\quad}$

6) $1 : 4 = 3 : \underline{\quad}$

7) $5 : 4 = 40 : \underline{\quad}$

8) $2 : 1 = 6 : \underline{\quad}$

9) $7 : 9 = 14 : \underline{\quad}$

10) $9 : 4 = \underline{\quad} : 8$

The Substitution Property

Use $x = 2$, $y = 3$, $z = 4$.

Show the new problem after replacing each variable with the correct number, under each problem, then solve the equation.

Matching:

- | | |
|----------------------|---------------------|
| ___ 1. $x + 7 =$ | A. $12 + 4 = 16$ |
| ___ 2. $y + 21 =$ | B. $22 \div 2 = 11$ |
| ___ 3. $12 + z =$ | C. $2 + 7 = 9$ |
| ___ 4. $xy =$ | D. $2(2) + 3 = 7$ |
| ___ 5. $2x + y =$ | E. $3 + 21 = 24$ |
| ___ 6. $22 \div x =$ | F. $(2)(3) = 6$ |

Order of Operations Worksheet Name _____

Use the right order of operations to find the answer.

7. $21 + 32 \times 2$

9. $20 + 12 - 24$

8. $(14 + 7) \times 2$

10. $(12 - 9) \times 6$