

Grade 8 Friday Final #6 Date: \_\_\_\_\_

**Money**

How many nickels in \$1.05? \_\_\_\_\_

How many dimes in \$2.90? \_\_\_\_\_

How many quarters in \$4.00? \_\_\_\_\_

How many .20 cents in \$1.20? \_\_\_\_\_

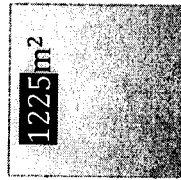
Write these decimals as fractions in lowest terms. First one is done for you

Decimal	Fraction	Fraction in Lowest Terms
0.75	$\frac{75}{100}$	$\frac{3}{4}$
0.80		
4.25		
0.60		
0.33		
5.08		
0.15		

**Square Numbers**

1. What number has a square root of 18? \_\_\_\_\_

2. What are the side lengths of this square? \_\_\_\_\_



What is the perimeter of this square? \_\_\_\_\_

**Square Numbers**

Find the value

$6^2 =$  \_\_\_\_\_

$\sqrt{9216} =$  \_\_\_\_\_

$23^2 =$  \_\_\_\_\_

$9^2 =$  \_\_\_\_\_

$4^3 =$  \_\_\_\_\_

Student \_\_\_\_\_

**Product of Primes**  
Use factor trees to write these numbers as product of primes

$600 =$  \_\_\_\_\_

Is this number a perfect square? \_\_\_\_\_ Explain your answer \_\_\_\_\_

$5184 =$  \_\_\_\_\_

Is this number a perfect square? \_\_\_\_\_ Explain your answer.

Numbers	Find the product	Find the sum	Find the difference
6,18			
19,10			
3,11			

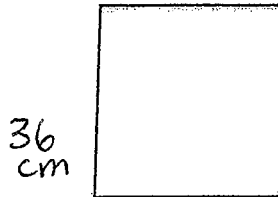
Fill in the chart

%	Fraction	Decimal
12%		
	$\frac{1}{4}$	
325%		0.50
	$\frac{1}{4\frac{1}{2}}$	
		7.2
50%	$\frac{11}{14}$	
		1.25
	$\frac{1}{5}$	
	$\frac{1}{20}$	

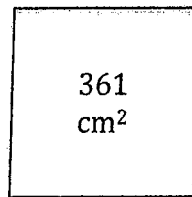
Daily 8 Friday Final # 6 Date: \_\_\_\_\_ Name: \_\_\_\_\_

1. What is an example of a number that has a square root greater than 8 but less than 9?
2. Use what you know about square roots to estimate the  $\sqrt{87}$

4. What is the area of this square?



5. What is the side length of this square?



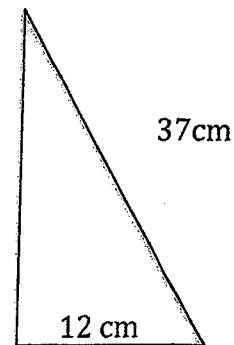
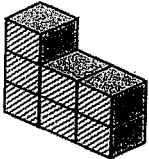
6. List all the factors of 100. Use your divisibility rules to help you.

\_\_\_\_\_

7. If the prime factorization of a number is  $3^3 \times 4^2 \times 6$ , what is the original number?

8.  $\sqrt{7225} =$  \_\_\_\_\_  $8^2 =$  \_\_\_\_\_  $7^3 =$  \_\_\_\_\_

9. What is the surface area of this shape? Show all your steps



10. Use Pythagoras formula to find the missing side length. Show all the steps