	Quiz 6 integers
1. Evaluate each of the following expression:	
a)	$2^3 =$
b)	$3^3 =$
c)	$3 \times 10^2 =$
d)	
	$\sqrt{36} =$
e)	$17^0 =$
2. Evaluate each expression:	
a)	$(-8)^2 =$
b)	$-8^2 =$
3.	25 - (-11) =
	9(-12) =
	$36 \div (-4) =$
	1 - 9 + 9 - 8 - 9 =
	$\frac{5(-27)}{3} =$
	$-7^2 =$
	6 - 3(3 - 5) =
	$\frac{27 - (-1)}{8 + (-1)} =$
	$\frac{28 - 2\sqrt{16}}{5} =$

Quiz 7 Fraction I
1. Convert the mixed number to an improper fraction.
$4\frac{1}{2} =$
2. Convert the improper fraction to a mixed number. $\frac{9}{2} =$
3. Find the prime factorization :
$45 = (\underline{\qquad})^2 \times \underline{\qquad}$
4. The greatest common factor (GCF) of 24 and 54 is
5. The least common multiple (LCM) of 8 and 36 is
$3 \cdot \frac{1}{3} =$
7. $\frac{14}{15} \cdot 9 =$
8. $4\frac{5}{6} \div 1\frac{2}{3} =$
9. $4\frac{1}{3}-2\frac{1}{5}=$
10. $3\frac{5}{7} + 3\frac{5}{8} =$
11.

1	1	1	
0 +	$\frac{1}{12}$	$-\frac{1}{16} =$	=

$$\frac{1}{8} + \frac{1}{12} - \frac{1}{16} =$$

Quiz 8 Fraction II
1. Compare: Use \langle , \rangle , or = to complete each statement:
$\frac{7}{8}$? $\frac{5}{6}$
$\frac{21}{17} ? \frac{23}{22}$
2. List the following fractions in orders from largest to smallest:
$\frac{3}{7}, \frac{16}{25}, \frac{25}{49}$
Largest=, Middle=, Smallest=
3. Divide or state that the division is undefined.
a) $-\frac{4}{5} \div (-\frac{3}{4}) =$
b)
$24 \div (-\frac{3}{5}) =$
4. Perform the following operations: (Note: Your answer is a fraction.)
a) $-\frac{2}{3} - (-\frac{1}{9}) =$
b) $\frac{2}{3} - \frac{3}{8} =$
c) $-\frac{3}{8}+3=$

d)

-1	+(-	$-\frac{2}{2})$	_
	. (3′	

	Quiz 9 Decimals	
1.	562 1 + 61 12	
	563.1 + 61.13 =	
	573.7 - 7.495 =	
2.		
	$7.464 \div 2.4 =$	
	$5.9 \times 4.19 =$	
3 Round the given value to	the nearest hundredths.	

 $55538.12079\approx$

4. Convert the number 0.9834 into its equivalent percent.

Answer= _____%

5. Write each number in scientific notation.

(a) $66600000 = A \times 10^n$. The number A is _____. The number n is _____.

(b) $0.000237 = A \times 10^n$. The number A is _____. The number n is _____.

6. Multiply. Give the answer in scientific notation.

 $(9 \times 10^9)(6 \times 10^{-5})$

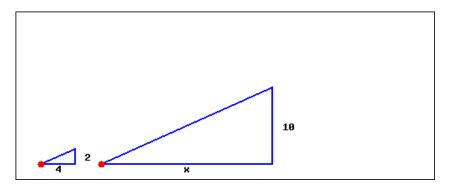
- A. 5.4×10^3
- B. 5.4×10^4
- C. 5.4×10^{6}
- D. 5.4×10^5
- E. 54×10^4
- 7.

 $\frac{3}{2}$ of 64 = 0.16 of 31 =

350% of 56 =

1. Solve the proportion:
$\frac{4}{5} = \frac{x}{70}$
5 70
2. What volume is 19 % of 13 liters?
Answer= liters.
3. 11 kilometers is what percent of 25 kilometers?
Answer= $\ $ %.
4. 795 dollars is 75 % of what amount?
Answer= dollars.
5. Peter bought 8 toy cars for \$96.
How much do 10 cars cost?
• A. \$106
• B. \$80
 C. \$120 D. \$94
6. Over four years the price of a car decreased from \$25000 by 30%. What is the price of the car now?
• A. \$83333
• B. \$35714
• C. \$17500
• D. \$7500

7. The triangles below are similar. Find the missing length.



Quiz 10 Proportion

Quiz 11 Substitution

1. Evaluate each of the following expressions when $a = -1$ and $b = -3$:
a)
$(a+b)^2 =$
b)
$a^2 + b^2 =$
c)
$a^2 + 2ab + b^2 =$
2. Evaluate each of the following expressions when $a = -2$, $b = 3$ and $c = -1$:
a) $(-1)^2$
$(a-b)^2 =$
b) $a^2 - ab + c^2 =$
c) $b^2 - 4ac =$
$b^2 - 4ac =$
3. If $x = -2$, evaluate $x^2 - x + 3 =$
x - x + 3 =

- A. -1
- B.5
- C. 9
- D.1

4. Use the formula $C = \frac{5}{9}(F - 32)$ for converting degrees Fahrenheit into degrees Celsius. Find the Celsius measure *C* of the Fahrenheit temperature F = 5.

- A. 48.6
- B. 15
- C. -29
- D. –15
- E. -48.6

5. Use the formula $F = \frac{9}{5}C + 32$ for converting degrees Celsius into degrees Fahrenheit . Find the Fahrenheit measure F of the Celsius temperature C = 20.

	Quiz 12 Linear Equation	
1. Solve for <i>x</i> ,	7x + 9 = -3	
2. Solve for <i>x</i> ,	7 - 3x = -2	
3. Solve for <i>x</i> ,	9x + 1 = -2x + 5	
	9x + 1 = -2x + 3	
4. Solve for <i>x</i> ,	-2x - 1 = 3x - 5	
5. Solve for <i>x</i> ,		
5. 501vt 101 <i>λ</i> ,	3x - 5 = -2(2x - 1)	

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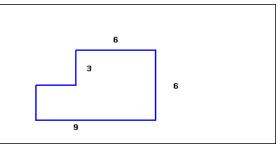
Quiz 13 Geometry

1. Let *a* and *b* represent the lengths of the legs of a right triangle, and *c* represent the length of the hypotenuse. Find *b* if a = 15 meters and c = 25 meters.

Answer (in meters): b =

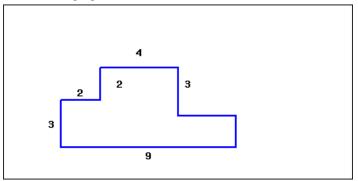
2.

Find the perimeter and area of the following figure:



3.

Find the perimeter and area of the following figure:



4. What is the value of *x* in the right triangle?

