

Name _____

Round each number the place value listed:

- 1) 567891011 ; ten thousands
- 2) 2367547 ; thousands
- 3) 983967 ; hundreds
- 4) 0.4567389 ; hundred thousandths
- 5) 0.12343210 ; millionths

Solve each problem. (Remember Order of Operations)

- 6) $2 - 7 \times 5$
- 7) $18 \div 2 \times 3$
- 8) $(6 - 10) \times -2$
- 9) $7 - 8 - (-5)$
- 10) $1 \times (-1) \times (-1) \times (1) \times (-2) =$

Fill in the missing values in the following tables given the rules below:

11) Rule: $y = b \div 9$

Input	b	27	36	- 45			
Output	y	3			- 6	7	0

12) Rule: $x = u + 9$

Input	u	8		-44			63
Output	x	17	34		0	-18	

Use what you know about operational 'clue words' to write a variable expression for each of the verbal expressions below.

- 13) 24 increased by a number
- 14) The product of a number and -6
- 15) A number split by 8
- 16) 5 less than a number

Find the value of the variable in each fraction to create an equivalent fraction.

17) $\frac{4}{9} = \frac{32}{\square}$ 18) $\frac{\square}{55} = \frac{8}{11}$ 19) $\frac{12}{27} = \frac{\square}{9}$ 20) $\frac{8}{\square} = \frac{16}{8}$

Convert the following mixed numbers to improper fractions and place in lowest terms:

Place the following fractions in lowest terms, improper fractions should be converted to mixed numbers.

20) $3 \frac{3}{15}$

23) $\frac{24}{72}$

21) $-5 \frac{10}{11}$

24) $\frac{22}{4}$

22) $1 \frac{5}{12}$

25) $-\frac{56}{64}$

Solve the following fraction problems. Place solutions in simplest form.

26) $\frac{2}{7} + \frac{4}{7}$

27) $\frac{3}{4} \times \frac{2}{15}$

28) $\frac{12}{25} \div \frac{3}{25}$

29) $1 \frac{7}{8} \cdot 2 \frac{4}{5}$

30) $3 \frac{4}{7} - 1 \frac{1}{7}$

31) $7 \frac{1}{4} + 8 \frac{5}{9}$

32) $9 \frac{2}{7} - 6 \frac{5}{7}$

33) $6 \frac{2}{3} \div 2 \frac{4}{5}$

Fill in the missing cells in the table below. Place fractions in simplest form

Fraction	Decimal	Percent	Fraction	Decimal	Percent
34)	.07	41)	$\frac{3}{5}$	46)	51)
35)	1.63	42)	$4 \frac{9}{100}$	47)	52)
36)	0.003	43)	$\frac{2}{25}$	48)	53)
37)	39)	5%	44)	49)	250%
38)	40)	25%	45)	50)	3.5%

Draw Factorization Trees. Find the GCF and LCM of each of the following groups of numbers.

77) 48 72

78) 63 9 36

Use the table to write a ratio in simplest form:

79) Cows to Pigs

80) Sheep and Goat to Horses

81) Total Farm Animals to Chickens

Farm Animals	Quantity
Cows	10
Horses	5
Goat	25
Chickens	40
Pigs	10
Sheep	20

Write a Rate and a Unit Rate:

82) 128 chairs in 4 rows

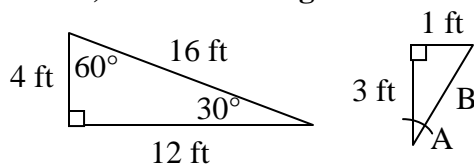
83) A butterfly travels 40 feet in 5 minutes

Proportional or Not Proportional:

84) $25/70$ and $100/280$

85) 18:30 and 3:5

86-87) The two triangles are similar. Find Angle A and Side B.



Solve the following by balancing equations in one step. SHOW WORK

88) $9 + b = -6$

89) $-8j = 48$

90) $p - 4 = 28$

91) $k/6 = -12$

92) $p - 1/3 = 3 \frac{1}{6}$

93) $(3/4)w = -1/2$