Number Sense

This assessment will test how well you remember the appropriate procedures for computing with whole numbers, decimals, fractions, mixed numbers, and integers.

Addition – Show all work and place your answer on the blank.

1. 
$$475 + 6 + 1000$$

$$4.75 + 6 + 1.000$$

$$\frac{4}{9} + \frac{7}{9}$$

$$\frac{2}{3} + \frac{5}{9}$$

$$5. \qquad 1\frac{1}{2} + 3\frac{2}{3}$$

8. 
$$-8.25 + 17$$

9. 
$$45 - 19$$

10. 
$$100 - 215$$

11. 
$$45 - 22.4$$

12. 
$$22.5 - 22.49$$

13. 
$$\frac{5}{8} - \frac{1}{2}$$

14. 
$$10-5\frac{2}{3}$$

15. 
$$4\frac{1}{4}-1\frac{2}{3}$$

Multiplication – Show all work and place your answer on the blank.

 $57 \times 3$ 17.

18.  $28\!\times\!14$ 

17. \_\_\_\_\_

18.

 $.2 \times .3$ 19.

20.  $1.8 \times .04$ 

19, \_\_\_\_\_

20. \_\_\_\_\_

 $21, \qquad \frac{2}{3} \times \frac{1}{2}$ 

22.  $1\frac{2}{3} \times 2\frac{2}{5}$ 

21. \_\_\_\_\_

22. \_\_\_\_\_

 $(-10)\times(-5)$  24.  $6\times(-4)$ 23.

23. \_\_\_\_\_

24. \_\_\_\_\_

25. 
$$534 \div 3$$

26. 
$$216 \div 12$$

27. 
$$45.6 \div 5$$

28. 
$$52.16 \div 4$$

$$29. \qquad \frac{2}{3} \div \frac{4}{5}$$

30. 
$$2\frac{3}{5} \div 1\frac{1}{2}$$

31. 
$$-48 \div 6$$

32. 
$$(-28) \div (-4)$$

Inventory	П
TILL A CTITOOT A	11.1

Name: \_\_\_\_\_

Percent

Date:

This assessment will test how well you can work with percents.

Write each percent as a decimal and a simplified fraction. Show all work.

4. 
$$66\frac{2}{3}\%$$

Dec: \_\_\_\_\_

Dec: \_\_\_\_\_

Frac: \_\_\_\_\_ Frac: \_\_\_\_

Frac:

Write each decimal as a percent and a simplified fraction. Show all work.

.65

%

%

%

%

Frac: \_\_\_\_\_ Frac: \_\_\_\_\_

Frac:

Write each fraction as a percent and decimal. Show all work.

10. 
$$\frac{1}{3}$$

$$11$$
.  $\frac{5}{8}$ 

$$12.$$
  $\frac{17}{20}$ 

%

Dec:

Dec:

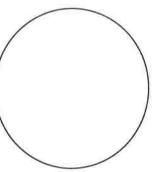
Dec:

Find th	ne percent of each num	ber. Sh	now all work and place your ar	nswer on the blank.
13.	40% of 50	14.	25% of 120	13
				14
15.	15% of 60	16.	2% of 250	15
				16
For 17	through 20, show all v	vork an	d answer in a complete senten	ce.
17.	A CD player that usua register." How much	ally sell will the	s for \$68 has a red tag on it the CD player cost after the disc	at says "25% off at the ount?
18. 19.	mayor. If New Castle vote for the mayor?  A luggage company s	has 25	people in New Castle would a people people in New many people people people people to the people peo	e would you expect to  e. If the company
17.	produces 3,500 bags edefective?	each we	eek, how many of these bags w	yould you expect to be
20.			a teacher. She just earned he What should she now earn each	

Inve	ntory III	Name:
Stati	stics, Probability, and Geometry	Date:
Stati	stics – Show all work and put your ar	nswer on the blank.
1.	Find the mean, median, mode, and	range for the following numbers:
	16, 21, 18, 32, 16	Mean
		Median
		Mode
		Range
2.	Mike's grades on the last 4 tests in What is his median score?	science were 84%, 96%, 92%, and 78%.
		2
3.	Find the mean for the following se	ts of numbers.
	A. 2. 3, 5.5	3A
	B11, 5, 0, -8, 24	3B
4.	The temperature for the past 12 ho temperatures were: 58, 54, 60, 62, What is the range?	urs was taken and recorded each hour. The 66, 70, 76, 80, 79, 77, 75, 70
	what is the range:	4
5.	Aaron's grades for math are 85%, get on the next test to have a mean	88%, 93%, and 89%. What would he need to (average) of 90%?
		5,
6.		4 points per game last season. If they played 8 of points scored for the whole season?
		6

7	The ages of the people who work in a certain office are as follows: 51, 43, 31, 28, 60, 45, 47, 54, 34, 42 Display this data in a stem-and-leaf plot. Include a key.				
				Key:	
Prol	bability – Show all w	ork, simplify all a	nswers, and put	them c	on the blank.
A si	x-sided die is rolled.	Write the follow	ing probabilities	as sim	plified fractions.
8.	P (5)	9. P (Even )	Number)	10.	P (more than 2)
	ag contains 12 red m		— bles, 2 green ma		and 1 white marble. If
one	marble is drawn at rations.	•	. •		
11.	P (blue) 12	P (red)	13. P (NOT 1	red)	14. P (black)
11.	12	•	13		14
tag o	out of a hat. If the re	maining prizes are at you will win a j	41 pencils, 10 acket? Show al	Γ-shirt	prize, you must pick a s, 6 hats, and 3 jackets, and write your answer
					Fraction:
					Decimal:
					Percent:
16.	Write our all of the Example: HTH	ne possibilities of t	flipping a coin th	ree tin	nes.

17. On a certain spinner, P (A) = 50%, P (B) = 25%, P (C) = 0%, and P (D) = 25%. Draw what this spinner could look like.



18. Draw a tree diagram to show all the possible outcomes of first flipping a coin <u>and</u> then rolling a 6 sided die.

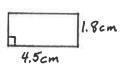
Consider the diagram you made above when answering the following question.

19. The game "Flip and Roll" involves a flip of a coin and a roll of a die. The coin flip determines which player will earn points and the die roll determines how many points are earned. Sam and Jessica are playing this game. Sam gets the points if the coin lands on "heads" and Jessica gets the points if the coin lands on "tails." Suppose Jessica needs at least 3 points to win the game. What is the probability that Jessica will win on the next "flip and roll?" Show all work and explain your answer in complete sentences.

Geometry - Show all work and put your answer on the blank with the correct units.

Find the perimeter or circumference of each object given.

20.





22,

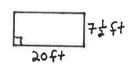


Find the area of each object given.

23.



24.

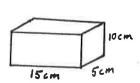


25.

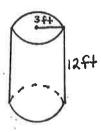


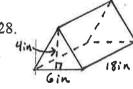
Find the volume of each object given.

26.



27.





26.	

28.				
40,	16			