Name: _____

For 1–15, write the letter of the choice that best completes the statement or answers the question. Use CAPITAL LETTERS for your answer please.

 1.	Write 0.678 as a percent			
	a. 0.0678%	b. 67.8%	c. 6.78%	d. 678%
 2.	Write $\frac{17}{40}$ as a percent			
	a. 0.425%	b. 4.25%	c. 42.5%	d. 425%
 3.	26 is what percent of 20			
	a. 1.30%	b. 0.17%	c. 16.67%	d. 130.00%
 4.	What is 35% of 63?			
	a. 180	b. 55.6	c. 2205	d. 22.05
 5.	19 is what percent of 40?			
	a. 47.50%	b. 2.10%	c. 40.40%	d. 52.30%
 6.	32 is 40% of what?			
	a. 0.8	b. 125	c. 80	d. 1.3
 7.	A toy store's percent of markup.	arkup is 35%. A mod	el train costs the sto	ore \$100. Find the
	a. \$135	b. \$35	c. \$285.71	d. \$65
 8.	A sporting goods store pa the raft's selling price.	ys \$180 for a rubber	raft. The percent of	markup is 40%. Find
	a. 72	b. \$108	c. \$252	d. \$450
 9.	All swimming equipment is for \$60. Find the discount	s on sale with a 35%	discount. A snorkel	ing set regularly sells
	a. \$44.44	b. \$39	c. \$81	d. \$21
 10.	Video games are on sale what is the sale price? (T	for 35% off. If a parti o the nearest penny)	cular game regularly	/ sells for \$99.50,

a. 34.83 b. \$96.02 c. \$64.68 d. \$134.33

	_ 11.	Identify	the p	ercent c	of incre	ase from	n 160 to 19	90.	(To the ne	earest	tentł	h of a percent)	
		а	. 18.8	8%	b	. 84.2%)	C.	15.8%		d.	0.2%	
	_ 12.	Identify	the p	ercent c	of decre	ease fror	m 140 to 1	05.	(To the n	earest	t tent	th of a percent)
		а	. 25%	6	b	. 0.3%		C.	33.3%		d.	133.3%	
	_ 13.	Identify	the p	ercent c	of incre	ase from	1 24 to 144	ł. (To the nea	irest te	enth	of a percent)	
		а	. 5%		b	. 16.67	%	C.	500%		d.	0.17%	
	_ 14.	Identify	the g	reatest	possibl	e error i	f an object	ha	s a mass o	of 82.	g.		
		а	. 0.5	g	b	. 1.2 g		C.	0.05 g		d.	0.12 g	
	_ 15.	Identify	the p	ercent e	error if t	he lengt	th of an ob	jec	t is measu	red 37	7.424	4 cm.	
		а	. 0.00	0001%	b	. 0.001	%	C.	0.1%		d.	1.3%	
For 16	6–31, a	answer ti	he fo	llowing	quest	ions. S	how work	foi	r full cred	it.			
16.	Find 7	78% of 38	30. (T	o the ne	earest	enth)				#16 a	answ	/er:	
17.	What	percent o	of 134	is 66?	(To the	e neares	t tenth of a	a De	ercent)	#17 a	answ	/er:	
					(. [-	,				
18.	24 is 3	36% of w	hat n	umber?	(To th	e neares	st tenth)			#18 a	answ	/er:	
19.	lf you	earned 8	32 poi	nts out o	of 90 p	oints on	a test,			#19 a	answ	/er:	
	what v	was your	score	e as a pe	ercent?	? (To the	e nearest to	ent	h of a perc	ent)			
20.	What	percent i	<u>s sh</u> a	ded in tl	he grid	?				#20 a	answ	/er:	

21. Mr. Roy surveyed 80 students to find out what their favorite subject is in school. The results are shown in the table below. Find the number of students that liked each subject the most. Show your WORK!

Favorite	School Subj	ect English Answer:
Subject	% of Students	
English	20%	Mat h Answer:
Math	10%	
Science	45%	Science Answer:
History	25%	
		History Answer:

22. Mrs Claus manages a clothing store. For a special promotion, she receives a shipment of coats that originally costs her \$85 each. Usually, the percent of markup for her store is 70%. Find the usual selling price of one of the coats. (To the nearest tenth)

#22 answer: _____

23. The owner of Mrs. Claus's store suggests that she mark each coat with a price tag of \$127.50. Using the original cost from #22, what is the percent of markup for each coat?

#23 answer: _____

24. When a new model of computers became available, Computer World reduces the price of the older computers by 25%. Peter has \$1,498 saved. If the original price of the computer is \$2,100, does Peter have enough money to buy the computer at the sale price? Show your work!

•

Circle One: Yes or NO

#24 answer: _____

25. A person decides to invest \$16,000. It grows with simple interest at a rate of 7% for 22 years. What is the final balance after the 22 years? Show your work!

#25 answer: _____

26. Hypothetically. Relli's in DeWitt had 30 workers in their restaurant in the year 2010. In 2011 they let go 20% of their workers due to budget cuts. In 2012, they are letting go another 10%. How many workers will they have at the beginning of 2013? Round to the nearest whole worker. Show your work!

#26 answer: _____

27. Mark comes to watch 70% of his girlfriend Amelia's basketball games. If the team plays 20 games, how many games did Mark **miss**?

#27 answer: _____

28. Mark is buying flowers for his girlfriend, in DeWitt. The original price of the flowers is \$33.99, but everything in the store is 25% off. Mark is also fortunate because his mom gave him an additional 10% off coupon to use. Find the total cost of the flowers after both discounts. Then find the total cost AFTER TAXES. (To the nearest penny)

#28 Final Cost Before Taxes: _____

#28 Final Cost AFTER Taxes: ____

29. A teacher weights grades: **homework = 10%**, **classwork = 30%**, **tests/quizzes = 60%** Your score in each category: **homework = 71%**, **classwork = 93%**, **tests/quizzes = 80%** What will your overall percentage be for the class?

#29 answer: _____

30. A college student earns an A- in Calculus (4 credits), a B+ in Psychology (3 credits), an A- in Matrix Algebra (4 credits), and a D in Coral Reefs (1 credit). (A = 4, A- = 3.7, B+ = 3.3, B = 3, B- = 2.7, C+ = 2.3, C = 2, C- = 1.7, D+ = 1.3, D = 1, and D- = .7) Find the student's GPA if the average is weighted based on credits. (To the nearest hundredth)

#30 answer: _____

31. Using the same student from #30, find the student's GPA if the average is NOT weighted (like in HS or JH). (To the nearest hundredth)

#31 answer: _____

For 32–34, identify the greatest possible error **AND** the percent error for the measurements below. (To the nearest tenth of a percent)

 32. 3.14 m
 33. 24 ft
 34. 1.085 g

 #32 GPE: _____
 #33 GPE: _____
 #34 GPE: _____

 #32 % error: _____
 #35 % error: _____
 #34 % error: _____

35. Identify the percent error of the black line drawn below. (To the nearest tenth of a percent)



#35 % error: _____