Directions: Choose the best answer for each of the following problems. Choice E is "NOT" for "None of these".

1.	628	8 - 473 =								
	A.	165	В.	175	C.	145	D.	155	E.	NOT
2.	497	7 + 503 - 288 =								
	A.	712	B.	812	C.	702	D.	802	E.	NOT
3.	54 :	×7 =								
	A.	368	В.	378	C.	388	D.	398	E.	NOT
4.	Wh	at is DCCLXIX	in A	Arabic numerals	s?					
	A.	1269	B.	769	C.	1264	D	. 764	E.	NOT
5.	21 -	+ 23 + 25 + 27 -	+ 29) =						
	A.	115	В.	120	C.	125	D.	130	E.	NOT
6.	6. A ball rack has 4 shelves and each shelf is 4 feet long. The balls have a diameter of 8 inches. How many balls can the rack hold?									
	A.	18	В.	24	C.	28	D.	32	E.	NOT
7.	$\frac{1}{3}$ +	$-\frac{1}{8} =$								
	A.	$\frac{11}{24}$	В.	$\frac{13}{24}$	C.	$\frac{5}{12}$	D.	$\frac{7}{12}$	E.	NOT
8.	Lisa can	a has S shirts ar she form?	nd P	pairs of pants.	How	many different	outf	îts with one shir	t an	d one pair of pants
	A.	S + P	В.	S - P	C.	$S \times P$	D	$S \div P$	E	. NOT
9	Ac	ar traveled 80 n	niles	$\frac{1}{1 - hours}$ W	/hat	was the car's av	verac	ve speed?		

- 9. A car traveled 80 miles in $1-\frac{1}{4}$ hours. What was the car's average speed?
 - B. 60 mph C. 64 mph D. 72 mph E. NOT A. 54 mph

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10.	2.56 × 0.8 =				
	A. 2.048	B. 2.068	C. 2.088	D. 2.108	E. NOT
11.	What is the sum	of all prime numb	ers between 25 and	35?	
	A. 58	B. 60	C . 62	D. 64	E. NOT
12.	How many pints	s are equivalent to a	8 gallons?		
	A . 128	B. 32	C . 64	D . 1	E. NOT
13.	Solve for <i>N</i> :	5N + 7 = 2N + 19			
	A. 3	B . 6	C . 2	D. 4	E. NOT
14.	3276 ÷ 9 =				
	A. 376	B. 366	C . 374	D. 364	E. NOT
15.	Which symbol g	goes in the box to n	nake the statement t	rue? 400 80	.3 × 5.2
	A. > E	B. < C.	= D. Can	not be determined	E. NOT
16.	Find the value o	f $3^3 + 2^2 - 1^1$.			
	A . 30	B. 13	C. 29	D. 12	E. NOT
17.	Which of the fol	llowing is not a div	isor of 120?		
	A. 5	B. 6	C. 7	D. 8	E. NOT
18.	Which of the fol	llowing ratios is no	t equivalent to 3 : 4	?	
	A. 6:8	B. 27 : 36	C . 9:12	D. 30:31	E. NOT
19.	Ashton has som Fritz. Together,	e coins. She gave Yuri and Fritz rece	$\frac{1}{4}$ of them to Yuri. (ived 120 coins. How	Of the remaining co v many coins does A	ins, she gave $\frac{2}{3}$ of them to ashton have left?
	A. 64	B. 60	C . 40	D. 48	E. NOT

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20.	0. What is the mean of 61, 72, 68, and 75?							
	A.	68	В.	69	C.	70	D. 71	E. NOT
21.	Fin	d the sum of the	e nez	xt three terms in	the	sequence 1, 4,	9, 16, 25,	
	A.	151	В.	149	C.	147	D. 145	E. NOT
22.	$4\frac{1}{3}$	$\times 1\frac{1}{2} =$						
	A.	$6\frac{1}{2}$	B.	$6\frac{1}{6}$	C.	$5\frac{5}{6}$	D. $5\frac{2}{3}$	E. NOT
23.	The cor	e perimeter of a ngruent. Find th	pen e ler	tagon is 66 cm. agth of these sid	Two es.	sides measure	11 cm and 16 c	cm. The other three sides are
	A.	14 cm	В.	15 cm	С	. 12 cm	D. 13 cm	E. NOT
24.	At	book costs \$26.0)0. T	The sales tax rat	e is ´	7.5%. Find the	total cost after	tax.

A. \$27.65 B. \$27.85 C. \$27.95 D. \$28.15 E. NOT

25. What product is shown on the number line?



A. $7\frac{2}{3}$

B. $10\frac{1}{6}$ C. $8\frac{5}{6}$

D. $9\frac{1}{6}$

E. NOT

26. The rule for this function is multiplication by $\frac{5}{6}$. What number goes in the box?

In	Out	
3	$2\frac{1}{2}$	
5	$4\frac{1}{6}$	
11		

C. 135 cm^2 A. 172 cm^2 B. 153 cm^2 D. 111 cm^2 E. NOT 28. $\sqrt{576} =$ **A.** 24 **B**. 26 **C**. 23 D. 27 E. NOT 29. 0.72 = ______(fraction) B. $\frac{17}{25}$ C. $\frac{19}{25}$ D. $\frac{21}{25}$ A. $\frac{18}{25}$ E. NOT 30. What percent of 450 is 90? A. $17\frac{1}{2}\%$ B. 15% **C**. 20% D. 25% E. NOT 31. $1 + 2 + 3 + 4 + \ldots + 29 =$ B. 455 A. 435 C. 395 D. 415 E. NOT 32. $\frac{14^8}{7^7 \times 2^6} =$ A. 49 **B.** 28 **C**. 14 D. 56 E. NOT 33. What is the remainder when 837026 is divided by 9? A. 5 C. 8 **B**. 3 D. 4 E. NOT 34. If $24 \times 15 = 12 \times Q$, what is the value of $8 \times Q$? A. 300 **C**. 240 **B**. 160 D. 480 E. NOT 35. Find the volume. A. 108 in³ B. 122 in³ 3 in C. 72 in^3 D. 84 in³ 4 in E. NOT 7 in

27. A rectangle has a perimeter of 52 cm. The width is 8 cm shorter than the length. Find the area.

36. Find the perimeter.



- 37. Marie has $2\frac{2}{3}$ pies left. She cuts the pies to make pieces that are $\frac{1}{6}$ of a whole pie. How many pieces does she have?
 - A. 10 B. 12 C. 14 D. 16 E. NOT
- 38. How many 6-character passwords can be created using the letters and numbers A, B, C, 1, 2, and 3 (each once) where the first character is a letter and the last character is a number?
 - A. 108 B. 144 C. 216 D. 288 E. NOT
- 39. $(15 \times 1) + (15 \times 2) + (15 \times 3) + (15 \times 4) + (15 \times 5) =$
 - A. 450 B. 300 C. 150 D. 225 E. NOT

40. The grid below gives the name of the person and the amount of money that person charges to perform each job. All four jobs must be assigned with each person getting a different job. What is the smallest possible cost to have all jobs performed?

	Walk Dog	Clean Room	Wash Dishes	Sweep	
Andie	\$5	\$8	\$14	\$16	
Bri	\$8	\$9	\$22	\$18	
Carl	\$12	\$11	\$15	\$13	
Dan	\$16	\$12	\$17	\$10	

A.	\$43	В.	\$39	C.	\$37	D.	\$41	E.	NOT
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