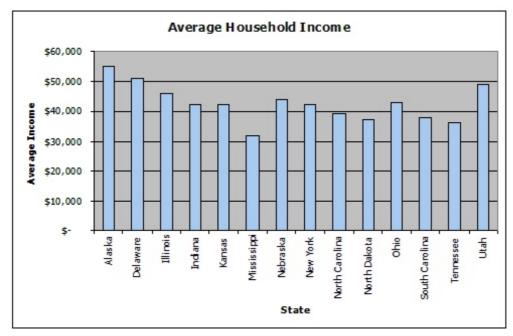
Exam			
Name			

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) For a specific year, the average household income for selected states is shown here. Estimate the average household income for North Carolina.





Answer: \$39,000 Explanation:

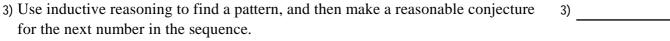
2) Estimate the total cost of the following meal at a sub shop.

2)

sandwich \$4.89 chips \$1.24 soda \$0.99

Answer: approximately \$7

Explanation:



5 10 20 40 80 __

Answer: 160 Explanation:

4) Use inductive	4)					
selected to the reasoning.						
Select a nu Multiply b Subtract 2 Divide by	y 8: 4 from the answer:					
Subtract th	ne original number:					
Answer: Final	answer is always -3.					
Selec	t a number:	x				
Multi	ply by 8:	8 <i>x</i>				
Subtr	act 24 from the answer:	8 <i>x</i> - 24				
Divid	le by 8:	$\frac{8x-24}{8}=x-3$				
Subtr	act the original number:	x - 3 - x = -3				
Explanation:	C					
5) Round to the i	nearest hundred-thousand.		5)			
98,521,90			3)			
Answer: 98,50 Explanation:	0,000					
·	are celebrating their 5th we	dding anniversary. Estimate the total cos	6)			
	_					
theater	\$59.52 \$58.79					
dinner drinks	\$12.78					
	\$13.50					
taxi						
Answer: appro Explanation:	ximately \$146					
7) The peak rate	of a phone company is 22¢	e per minute, and the off-peak rate is 12¢	7)			
per minute. F	ind the savings for a 44-mi	nute phone call if it was made during				
off-peak time	as opposed to peak time.					
Answer: \$4.40						

Explanation:

	•	\$887.99 is on sale f	or 20% off. Estimate the	he sale 8	3)	
price of the	item.					
Answer: \$71	2-\$720					
Explanation:						
9) Estimate the	cost to live in	an apartment for 1 y	ear if the rent is \$319 p	er month 9	⁹⁾	
and utilities	are \$62 per mo	nth.				
Answer: appr	roximately \$45	60				
Explanation:	•					
•	_	-	nen make a reasonable	conjecture 1	l0)	
	number in the s	•				
7 8 10	0 13 17 22	2 28				
Answer: 35						
Explanation:						
,		n another number.	The sum of the numbers	s is 36. 1	1)	
Find the num	nbers.					
Answer: 9 an	d 27					
Explanation:						
MULTIPLE CHOICE. (Choose the one a	Iternative that best co	mpletes the statement or	answers the que	stion.	
12) Round to the	e nearest hundr	edth.				12)
2.87491						,
A) 2.87000) B	2.87400	c) 2.88000	D) 2.87500		
Answer: A			,	ŕ		
Explanation:	A)					
	B)					
	C)					
	D)					

13) Use inductive reasoning to find a pattern for the answers. Then use the pattern to guess the result of the final calculation, and perform the operation to see if your answer is correct.

 $12,345,679 \times 9 = 111,111,111$

 $12,345,679 \times 18 = 222,222,222$

 $12,345,679 \times 27 = 333,333,333$

 $12,345,679 \times 36 = ?$

A) 333,333,333

B) 555,555,555

C) 444,444,444

D) 444,444,408

Answer: C

Explanation: A)

B)

C) D)

14) Use inductive reasoning to find a pattern for the answers. Then use the pattern to guess the result of the final calculation, and perform the operation to see if your answer is correct.

14)

 $0^2 + 1 = 1$

$$1^2 + 3 = 2^2$$

$$2^2 + 5 = 3^2$$

$$3^2 + 7 = 4^2$$

$$4^2 + 9 = 5^2$$

 $11^2 + 23 = ?$

A) 133

B) 143

c) 12^2

D) 13^2

Answer: C

Explanation: A)

B)

C)

D)

15) Use deductive	e reaso	ning	to a	rrive	at a	concl	lusio	n.			15)
On Christmas Day we can A) watch fo	-					and	gard	ens are a	lways	s open, so this Christmas	
B) eat Mexi			-	-		in a	park	•			
C) eat Kore D) eat fast f						-					
Answer: C Explanation:	A) B) C) D)										
next number		seque	ence		-			en make	a reas	sonable conjecture for the	16)
A) 45			B) ⁴	41				c) 39		D) 43	
Answer: C Explanation:	A) B) C) D)										
17) Use inductive	e reaso	ning	to fi	nd a	patte	rn, aı	nd th	en make	a reas	sonable conjecture for the	17)

17) Use inductive next number			_			pattern, and then make a re	asonable conjecture
6 7 3	4	0	1	-3	-2		
A) -3				B) 2	2	C) -6	D) -1
Answer: C							
Explanation:	A)						
	B)						
	C)						
	D)						

18) Use inductive	_	•			~	18)	
number to the	e final answ	er. Try to prov	ve your conjec	cture using ded	uctive reasoning.		
Select a num Add 80. Multiply by 7. Subtract 560. Divide by 7. Subtract the 6 A) The ans B) The ans C) The ans D) The ans	ber. original nun wer is alway wer is alway wer is alway wer is alway	nber. ys 0. ys -480. ys the original i					
Explanation:	A) B) C) D)						
car get? (Ro A) 24.5 mil		earest tenth.)	в) 4	How many mil 3.2 miles per g 0.8 miles per g		19) _	
Answer: D Explanation:	A) B) C) D)		,	1 6			
4 PCs on eac measure 18 i	h counter w	ith 4 feet betwe	een the PCs ar	nd 3 feet on each	de. She wants to put ch end. The PCs rs should the Internet	20) _	
cafe have ma A) 26 ft	de?	B) 24 ft	c) 2	5 ft	D) 28 ft		
Answer: B Explanation:	A) B) C) D)						

21)	A person	's monthly budget includes \$226 for food, \$172 for gasoline, and \$193 for
	utilities.	If the person earns \$2037 per month, how much money is left for other
	expenses	?

21) ____

- A) \$1639
- B) \$1672
- c) \$1446
- D) \$723

Answer: C

Explanation: A)

- B) C)
- D)
- 22) Phil has 12 stamps of denominations \$0.37 and \$0.23. If the total value of the stamps is \$3.18 how many \$0.37 stamps does Phil have?
 - 22)

A) 4

B) 3

c) 9

D) 2

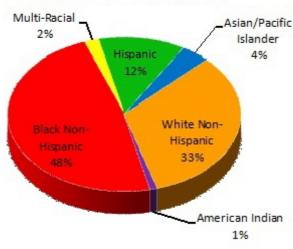
Answer: B

Explanation: A)

- B)
- C) D)
- 23) The demographics of an elementary school are shown below. The school has 504 students. Estimate the number of students who are White Non-Hispanic.

23)

School Demographics



- A) 166
- B) 17

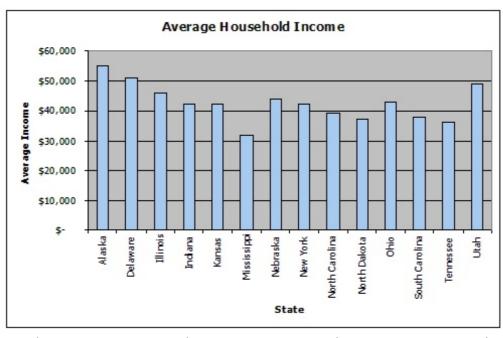
c) 33

D) 16,632

Answer: A

Explanation: A)

- B)
- C)



- A) \$32,000
- B) \$40,000
- c) \$15,000
- D) \$23,000

Answer: D

Explanation: A)

- B)
- C)
- D)

25) The length of a garden is double its width. There is a fence around the perimeter that measures 180 ft. What are the length and width of the garden?

25)

26)

- A) length = 90 ft, width = 45 ft
- B) length = 45 ft, width = 90 ft D) length = 30 ft, width = 60 ft
- C) length = 60 ft, width = 30 ft
- Answer: C
 Explanation: A)
 B)
 - B) C)
 - D)

26) Round 857,665,735 to the nearest ten-thousand.

- B) 857,665,740
- c) 857,700,000
- D) 857,670,000

Answer: D

Explanation: A

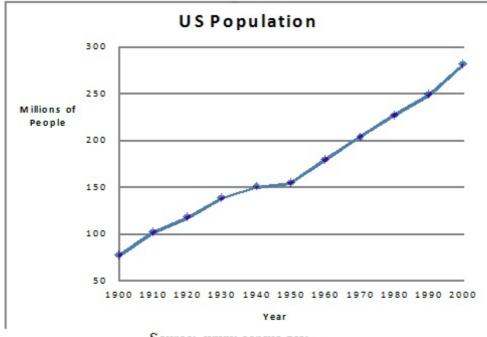
A) 857,666,000

- A) B)
 - D)
- D)

27) A recipe calls for 3 cups of flour. If the baker wants to make half a recipe, how much						
flour should	be used?			_		
A) 5 cups	B) 6	cups	C) $1\frac{1}{2}$ cups	D) $\frac{2}{3}$ cup		
Answer: C Explanation:	A) B) C) D)					
When any number divisible III A) $11 \times 5 = 111 \times 5$ B) $111 \times 5 = 111 \times 5$ C) $5 \times 5 = 111 \times 5 = 111 \times 5$	by 5. = 55; 5 + 5 = 10,	which is divisting to the second of the seco	e digits of the answer asible by 5. is not divisible by 5. risible by 5.	are added, the sum will	28)	
Answer: C Explanation:	A) B) C) D)		·			
29) Determine w	hether the type of	of reasoning us	sed is inductive or dedu	active reasoning.	29)	
•	puter tech told m		fix my computer, it wint t \$125 to fix my computer	•		
A) deducti Answer: A Explanation:	ve reasoning A) B)		B) inductive reas	oning		
30) Determine w	hether the type of	of reasoning us	sed is inductive or dedu	active reasoning.	30)	
camera becar	s already lost 5 ca use he knows he' we reasoning		dn't spend a lot of monose that one too. B) deductive reas			

Explanation:

A) B)



Source: www.census.gov

A) 12,100,000

- B) 101,000,000
- c) 81,000,000
- D) 121,000,000

Answer: B

Explanation:

- A) B)
- B)
- C) D)

,

32) Write a counter example to show that the statement is false.

When an odd number is added to the product of two even numbers, the result will be even.

- A) $4 \cdot 2 + 3 = 11$. 11 is not even.
- B) $4 \cdot 5 + 1 = 21$. 21 is not even.
- C) $3 \cdot 5 + 4 = 19$. 19 is not even.
- D) $4 \cdot 5 + 2 = 22$. 22 is even.

Answer: A

Explanation: A)

- B)
- C)
- D)

33) Jane has 17 phone cards worth either \$20 or \$15. How many of each does he have if the phone cards total \$315?

33)

32)

- A) twelve \$20 cards and five \$15 cards
- B) five \$20 cards and twelve \$15 cards
- c) eleven \$20 cards and six \$15 cards
- D) fifteen \$20 cards and one \$15 cards

Answer: A

Explanation: A)

- B)
- C)
- D)

Math in Our World 3rd Edition Sobecki Test Bank

Answer Key Testname: C1

- 1) \$39,000
- 2) approximately \$7
- 3) 160
- 4) Final answer is always -3.

Select a number: xMultiply by 8: 8x

Subtract 24 from the answer: 8x - 24

Divide by 8: $\frac{8x - 24}{8} = x - 3$

Subtract the original number: x - 3 - x = -3

- 5) 98,500,000
- 6) approximately \$146
- 7) \$4.40
- 8) \$712-\$720
- 9) approximately \$4560
- 10) 35
- 11) 9 and 27
- 12) A
- 13) C
- 14) C
- 15) C
- 16) C
- 17) C
- 18) A
- 19) D
- 20) B
- 21) C
- 22) B
- 23) A
- 24) D
- 25) C
- 26) D
- 27) C 28) C
- 29) A
- 30) A
- 31) B
- 32) A
- 33) A