## Math in Our World 3rd Edition Sobecki Test Bank

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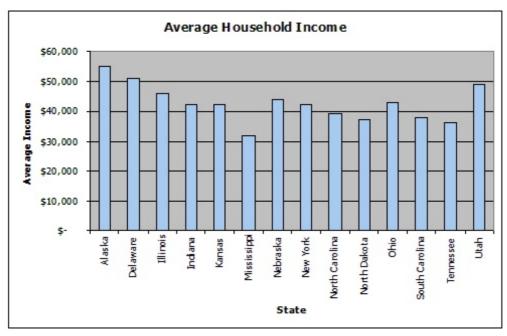
Exam

| 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:

3) Use inductive reasoning to find a pattern, and then make a reasonable conjecture for the next number in the sequence.

| 3) |  |
|----|--|
|    |  |

| 5       | 10    | 20       | 40 | 80 |   |
|---------|-------|----------|----|----|---|
|         |       |          |    |    | _ |
| Ancuror | . 160 | <u> </u> |    |    |   |

Answer: 160 Explanation:

| 4) Use inductive                                     | 4)                           |  |    |
|--|------------------------------|--|----|
| selected to the reasoning.                           | final answer. Try to prove   | e your conjecture using deductive          |    |
| Select a nu<br>Multiply b<br>Subtract 2<br>Divide by | y 8:<br>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<br>\$58.79           |  |    |
| dinner<br>drinks                                     | \$12.78                      |  |    |
|  | \$13.50                      |  |    |
| taxi   |                              |  |    |
| Answer: appro<br>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      | <sup>9)</sup> |     |  |  |  |  |  |  |
| and utilities      | and utilities are \$62 per month. |                         |                            |                 |               |     |  |  |  |  |  |  |
| 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) |
|--|----------------------|-------|-----------------|-------|-------|--------|-------|-----------|--------|----------------------------|-----|
| Day we can   | -                    |       |                 |       |       | and    | gard  | ens are a | lways  | s open, so this Christmas  |     |
| A) watch football and open gifts.  B) eat Mexican food and take a walk in a park.          |                      |       |                 |       |       |        |       |           |        |                            |     |
| C) eat Korean food and take a walk in a park.  D) eat fast food and take a walk in a park. |                      |       |                 |       |       |        |       |           |        |                            |     |
| Answer: C<br>Explanation:  | A)<br>B)<br>C)<br>D) |       |                 |       |       |        |       |           |        |                            |     |
| next number  |                      | seque | ence            |       | -     |        |       | en make   | a reas | sonable conjecture for the | 16) |
| A) 45  |                      |       | B) <sup>4</sup> | 41    |       |        |       | c) 39     |        | D) 43                      |     |
| Answer: C<br>Explanation:  | A)<br>B)<br>C)<br>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.<br>ys 0.<br>ys -480.<br>ys the original i |                |  |   |       |  |
| Explanation:   | A)<br>B)<br>C)<br>D)   |   |                |  |   |       |  |
| car get? (Ro<br>A) 24.5 mil  |  | earest tenth.)                                  | в) 4           | How many mil 3.2 miles per g 0.8 miles per g |   | 19) _ |  |
| Answer: D<br>Explanation:  | A)<br>B)<br>C)<br>D)   |   | ,              | 1 6  |   |       |  |
| 4 PCs on eac<br>measure 18 i   | h counter w  | ith 4 feet betwe                                | een the PCs ar | nd 3 feet on each                            | de. She wants to put<br>ch end. The PCs<br>rs should the Internet | 20) _ |  |
| cafe have ma A) 26 ft  | de?  | B) 24 ft  | c) 2           | 5 ft   | D) 28 ft  |       |  |
| Answer: B<br>Explanation:  | A)<br>B)<br>C)<br>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

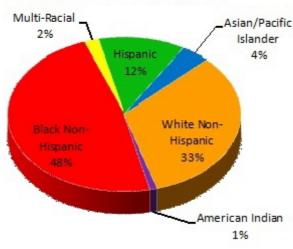
Answer: B

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

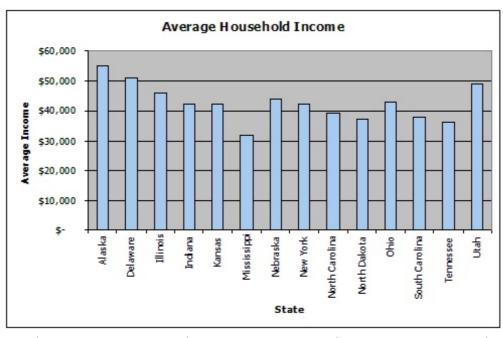
c) 33

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

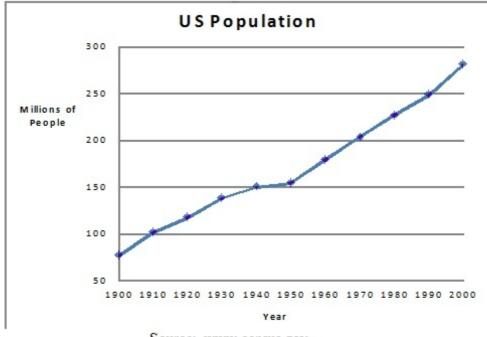
A) 857,666,000

- 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<br>Explanation:   | A)<br>B)<br>C)<br>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.<br>= 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<br>Explanation:   | A)<br>B)<br>C)<br>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<br>Answer: A<br>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) |  |  |  |
| Matthew has already lost 5 cameras. He didn't spend a lot of money on his newest camera because he knows he'll eventually lose that one too.  A) inductive reasoning  B) deductive reasoning  Answer: A |                            |  |  |                         |     |  |  |  |

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)

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Answer Key Testname: C1

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

Select a number: x

Multiply 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