Survey of Mathematics with Applications 11th edition Runde Test Bank

SKU: 9780135740460-TEST-BANK

Chapter 1 Exam

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Use inductive reasoning to predict the next line in the pattern.

1) $9 \times 9 = 81$ 1) _____
$99 \times 99 = 9801$
$999 \times 999 = 998{,}001$
A) $9999 \times 9999 = 99{,}980{,}001$
B) $9999 \times 9999 = 1{,}000{,}001$
C) $999 \times 9999 = 99{,}980{,}001$
D) $9999 \times 9999 = 999{,}001$

2) $(1 \times 9) - 5 = 4$ 2) _____
$(21 \times 9) - 5 = 184$
$(321 \times 9) - 5 = 2884$
A) $(4321 \times 9) - 5 = 3883$
B) $(4321 \times 9) - 5 = 38{,}884$
C) $(432 \times 9) - 5 = 38{,}884$
D) $(4321 \times 9) - 5 = 28{,}884$

3) $8 \times 10 = 9 \times 11 - 19$ 3) _____
$10 \times 12 = 11 \times 13 - 23$
A) $12 \times 14 = 13 \times 15 - 25$
B) $12 \times 14 = 13 \times 15 - 27$
C) $12 \times 14 = 15 \times 23 - 27$
D) $12 \times 14 = 13 \times 15 + 25$

4) $(8 \times 1) \times (2 \times 1) = 16$ 4) _____
$(8 \times 10) \times (2 \times 2) = 320$
$(8 \times 100) \times (2 \times 3) = 4800$
A) $(8 \times 1000) \times (2 \times 4) = 64{,}000$
B) $(8 \times 1000) \times (2 \times 4) = 6400$
C) $(8 \times 1000) \times (2 \times 4) = 72{,}000$
D) $(8 \times 1000) \times (2 \times 4) = 56{,}000$

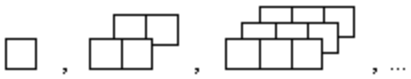
5) $11 \times 12 = 13 \times 14 - (11 + 12 + 13 + 14)$ 5) _____
$12 \times 13 = 14 \times 15 - (12 + 13 + 14 + 15)$
A) $14 \times 15 = 16 \times 17 - (13 + 12 + 11 + 10)$
B) $13 \times 14 = 15 \times 16 - (11 + 12 + 13 + 14 + 15 + 16)$
C) $14 \times 15 = 16 \times 17 - (14 + 15 + 16 + 17)$
D) $13 \times 14 = 15 \times 16 - (13 + 14 + 15 + 16)$

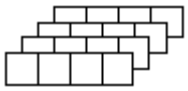
6) $16 + 61 = 77$ 6) _____
$17 + 71 = 88$
A) $18 + 81 = 122$ B) $81 + 18 = 99$ C) $66 + 33 = 99$ D) $18 + 81 = 99$

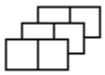
7) $50 - 9 = 41$ 7) _____
$500 - 89 = 411$
$5000 - 789 = 4211$
A) $500{,}000 - 6789 = 43{,}211$
B) $50{,}000 - 6789 = 43{,}211$
C) $50{,}000 - 6789 = 493{,}211$
D) $5000 - 6789 = 43{,}211$

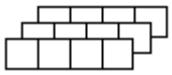
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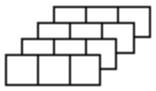
Draw the next figure in the pattern.

8)  8) _____

A) 

B) 

C) 

D) 

9)  9) _____

A) 

B) 

C) 

D) 

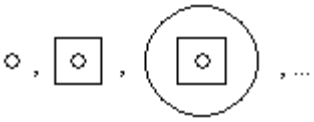
10)  10) _____

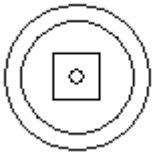
A) 

B) 

C) 

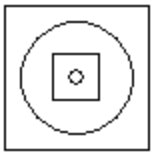
D) 

11)  11) _____

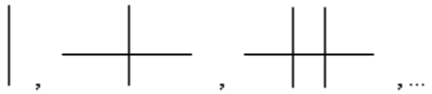
A) 

B) 

C) 

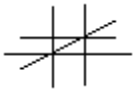
D) 

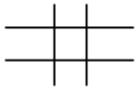
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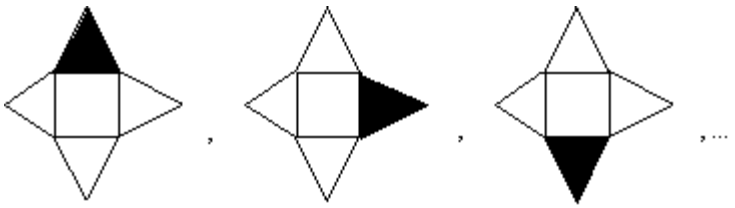
12)  12) _____

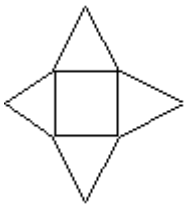
A) 

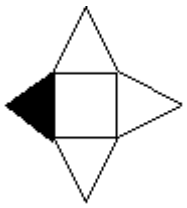
B) 

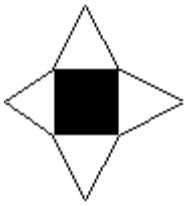
C) 

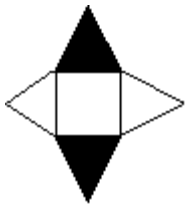
D) 

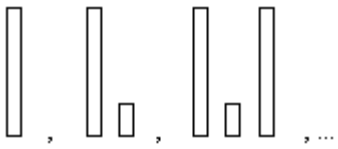
13)  13) _____

A) 

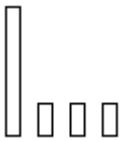
B) 

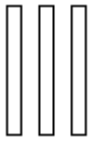
C) 

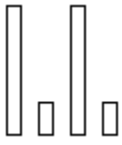
D) 

14)  14) _____

A) 

B) 

C) 

D) 

Use inductive reasoning to predict the next number in the sequence.

15) 7, 9, 11, 13, 15 15) _____

A) 19 B) 16 C) 17 D) 22

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16) 39, 32, 25, 18, 11 16) _____

A) 0 B) 2 C) 7 D) 4

17) 2, –14, 98, –686, 4802 17) _____

A) 8918 B) 33,614 C) –33,614 D) –8918

18) 0, 5, 5, 0, –5, ... 18) _____

A) 10 B) 0 C) 5 D) –5

19) $1, -\frac{1}{4}, \frac{1}{16}, -\frac{1}{64}, \frac{1}{256}, \ldots$ 19) _____

A) $-\frac{1}{4096}$ B) $-\frac{1}{1024}$ C) $\frac{1}{1024}$ D) $\frac{1}{4096}$

20) 4, 5, 8, 10, 16, 20, ... 20) _____

A) 24 B) 32 C) 30 D) 40

Solve the problem using inductive reasoning.

21) Find the next term in the following sequence of days of the week. 21) _____

S, S, M, T, W

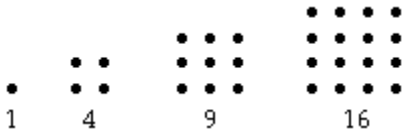
A) M B) S C) T D) F

22) Find the next term in the following sequence. 22) _____

T, F, S, E, T, T, F

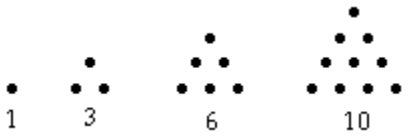
A) S B) F C) E D) T

23) Find the 6th square number that corresponds to the following dot sequence. 23) _____



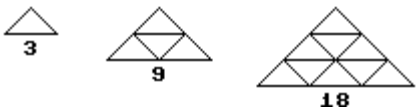
A) $s_6 = 36$ B) $s_6 = 21$ C) $s_6 = 49$ D) $s_6 = 12$

24) Find the 4th triangular number that corresponds to the following dot sequence. 24) _____



A) $t_4 = 10$ B) $t_4 = 20$ C) $t_4 = 6$ D) $t_4 = 8$

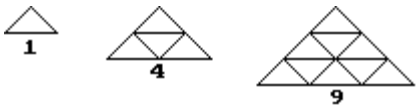
25) How many line segments are used in the next figure? 25) _____



A) 36 B) 30 C) 24 D) 27

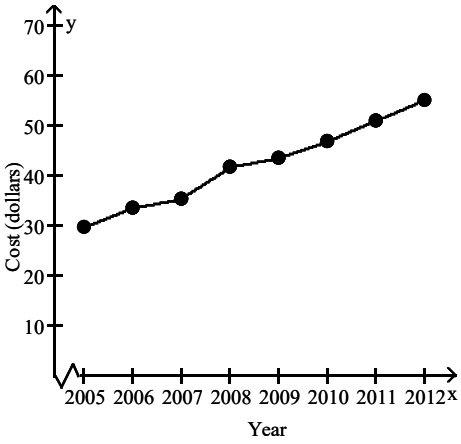
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26) How many triangles are in the next figure? 26) _____



A) 18 B) 36 C) 16 D) 12

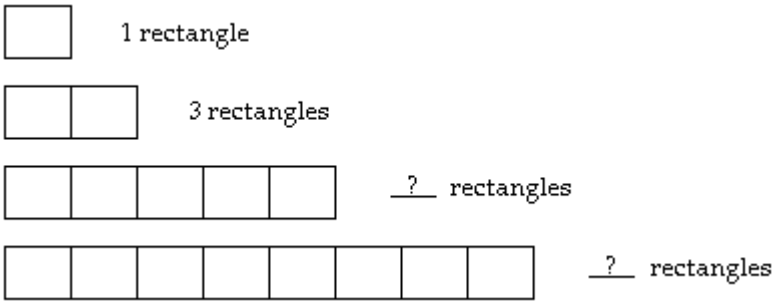
27) The following graph shows the average monthly cost for satellite television for each year from 2005 through 2012. Assuming the trend continues, use the graph to predict the average monthly cost for satellite TV in 2016. 27) _____



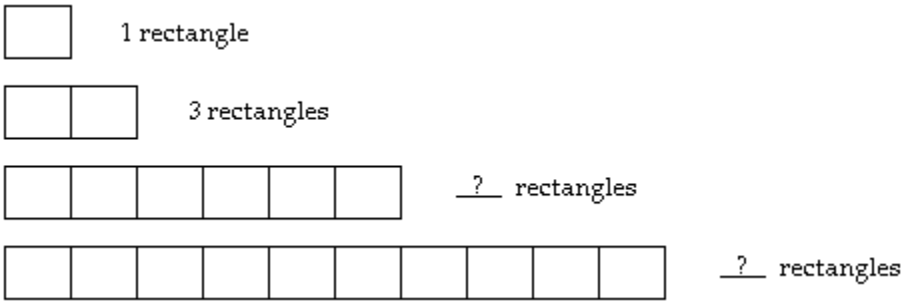
A) $56 B) $76 C) $42 D) $66

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

28) How many rectangles are there in the last two figures? 28) _____



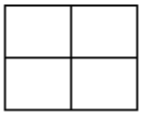
29) How many rectangles are there in the last two figures? 29) _____

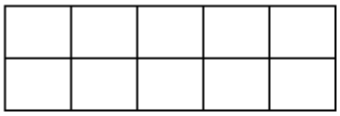


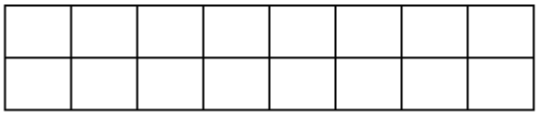
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30) In how many ways can you exactly cover the last two diagrams with "dominoes" that are just the size of two small squares? 30) _____


1way

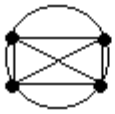

2 ways

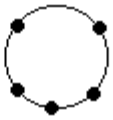

? ways

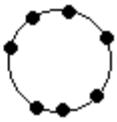

? ways

31) How many line segments are determined by joining dots on the last two circles? 31) _____


3 segments


6 segments


? segments


? segments

32) Find the number of games played in a round robin tournament for the given numbers of teams. In a round robin tournament every team plays every other team once. 32) _____

Number of teams	Number of games played
3 teams	3 games
4 teams	6 games
5 teams	10 games
6 teams	__ games
7 teams	__ games

Look for a pattern. Find the number of games played in a round robin tournament involving n teams. Find the number of games played in a round robin tournament involving 14 teams.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Solve the problem.

33) Estimate the answer by rounding each number to the nearest ten. 33) _____
81 + 79 + 96 + 71 + 15
A) 342 B) 350 C) 340 D) 300

34) Estimate the answer by rounding each number to the nearest ten. 34) _____
81 – 36
A) 40 B) 45 C) 120 D) 50

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35) Estimate the answer by rounding each number to the nearest hundred. 35) _____
812 + 124 + 413 + 597 + 221
A) 2170 B) 2100 C) 2167 D) 2200

36) Estimate the answer by rounding each number to the nearest hundred. 36) _____
640 – 177
A) 500 B) 800 C) 400 D) 463

37) Estimate the answer by rounding each number to the nearest hundred. 37) _____
884 – 445
A) 430 B) 500 C) 400 D) 439

38) Estimate the answer by rounding the first number to the nearest hundred and the second number to the nearest thousand. 38) _____
128 × 7934
A) 800,000 B) 1,400,000 C) 700,000 D) 160,000

39) Estimate the answer by rounding the first number to the nearest ten thousand and the second number to the nearest hundred. 39) _____
53,811 ÷ 462
A) 1000 B) 100 C) 900 D) 90

40) Estimate the answer by rounding the first number to the nearest ten thousand and the second number to the nearest hundred. 40) _____

$$\frac{52{,}593}{475}$$

A) 1000 B) 900 C) 100 D) 90

Estimate the answer to the problem.

41) Each gallon of shingle stain covers 120 square feet. How many gallons should you buy to cover 560 square feet? 41) _____
A) 5 gal B) 3 gal C) 6 gal D) 4 gal

42) One cook can make enough food for 350 people a night. How many cooks are needed to feed 2897 people a night? 42) _____
A) 10 cooks B) 8 cooks C) 9 cooks D) 11 cooks

43) David's company has to ship 3738 boxes of sprinklers. If a truck can hold 550 boxes, how many trucks does he need to ship all the boxes? 43) _____
A) 8 trucks B) 5 trucks C) 6 trucks D) 7 trucks

44) A particular freight elevator can safely carry 1032 pounds. How many 109–pound bundles of wood can be safely carried by this elevator? 44) _____
A) 7 bundles B) 8 bundles C) 9 bundles D) 5 bundles

45) Each gallon of porch and deck paint covers 200 square feet. How many gallons are needed to cover 749 square feet? 45) _____
A) 4 gal B) 2 gal C) 5 gal D) 3 gal

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46) Jane runs 13 miles a day. Without finding the exact answer, estimate the total number of miles Jane runs in 87 days. 46) _____

A) 1800 mi B) 800 mi C) 900 mi D) 7200 mi

47) An appliance store sells 26 refrigerators a week. Without finding the exact amount, calculate the total amount of money the store makes in a week if each refrigerator costs $638. 47) _____

A) $21,000 B) $14,000 C) $12,000 D) $18,000

48) James' drive from home to work is 30.1 miles one way. If in a month he goes to work 22 days, then how many miles does he drive going from home to work and back in one month? 48) _____

A) 1500 mi B) 900 mi C) 1750 mi D) 1200 mi

49) A mobile library has 1092 books in its collection. If there are 21 shelves in the library, then how many books, on average, are stacked on each shelf? 49) _____

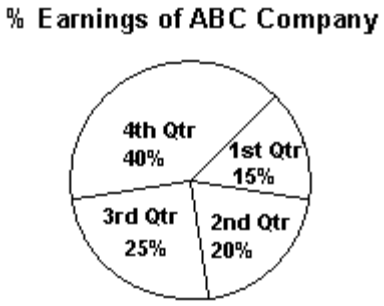
A) 55 books B) 46 books C) 60 books D) 50 books

50) Ingred is planning a vacation to Colorado. Her round–trip airfare from Chicago, Illinois, to Denver, Colorado, totals $131. Car rental is $47 per day and her hotel is a total of $81 per day, and she estimates a total of $50 per day for food, gas, and miscellaneous items. If Ingred is planning on staying five full days and nights, estimate her total expenses. 50) _____

A) $310 B) $1030 C) $1090 D) $1300

Estimate the answer from the table or graph.

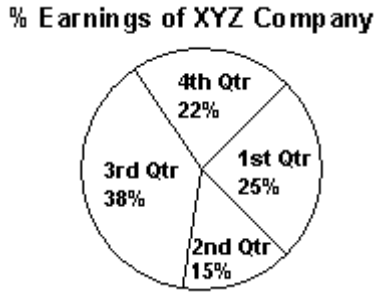
51) The profit earnings for ABC company are reported quarterly. The earnings as a percentage of the yearly earnings for 2012 are shown in the pie chart. If the total earnings for the year were $410,000, what were the earnings for the third quarter? 51) _____



A) $205,000 B) $164,000 C) $102,500 D) $82,000

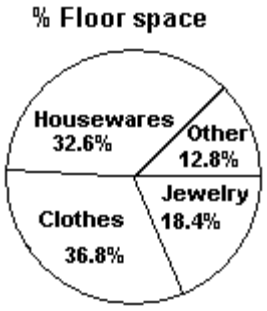
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52) The profit earnings for XYZ company are reported quarterly. The earnings as a percentage of the yearly earnings for 2012 are shown in the pie chart. If the earnings in the first quarter were $58,000, what were the earnings for the whole year? 52) _____



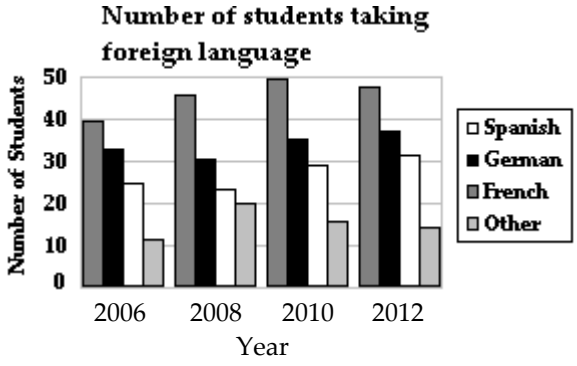
A) $29,000 B) $116,000 C) $232,000 D) $290,000

53) A retail store has items such that they fall under the categories of clothes, housewares, jewelry, and other. The percentage floor space allocated for displaying each category of items is shown in the pie chart. If the floor space allocated to clothes is 21,000 ft^2, what is the floor space allocated to jewelry? 53) _____



A) 42,000 ft^2 B) 10,500 ft^2 C) 63,000 ft^2 D) 5250 ft^2

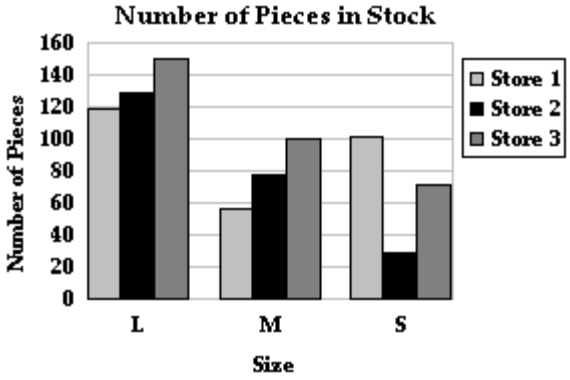
54) The number of students at Alder High School who studied foreign languages in different years is shown in the bar graph. What is the total number of students who studied a foreign language in 2008? (Assume no student studied two foreign languages). 54) _____



A) 140 students B) 120 students C) 160 students D) 80 students

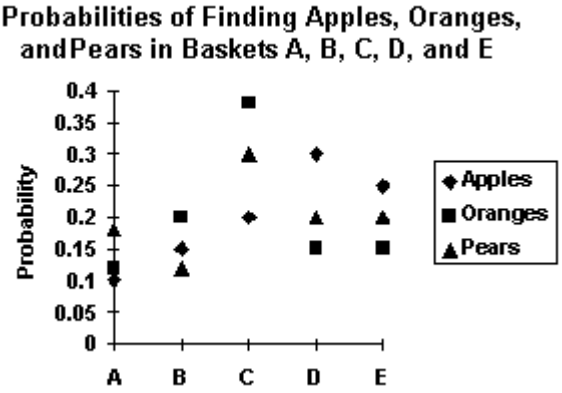
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55) A retail chain has three stores that are carrying various sizes of a particular dress. The number of pieces of each size that a store has is shown in the graph below. If Store 1 sold 31 pieces of the large (L) size, how many does it still have? 55) _____



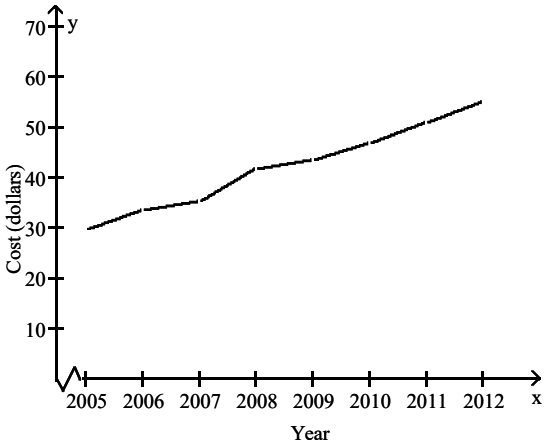
A) 119 pieces B) 89 pieces C) 169 pieces D) 1148 pieces

56) The probability of finding apples, oranges, and pears in each of baskets A, B, C, D, and E is shown in the graph given below. What is the probability of finding oranges in one of the baskets A, B, or C? 56) _____



A) 0.72 B) 0.70 C) 1 D) None

57) The graph shows the average monthly cost of a wireless phone service for the years 2005 through 2012. Estimate the average monthly cost of this wireless phone service in 2009. 57) _____



A) $47 B) $41 C) $54 D) $44

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58) The number of calories in different food items are given below. If Jeanne had a serving of salad and two slices of bread for lunch, what was her calorie intake? 58) _____

Food item	Calories
Glass of milk	150
Bowl of cereal	120
Slice of bread	70
Fruit bowl	50
Serving of salad	40

A) 220 calories B) 180 calories C) 110 calories D) 150 calories

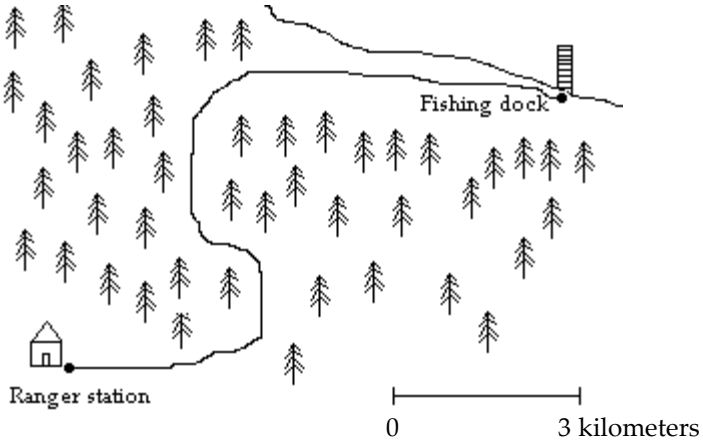
59) In a shop that sells a variety of nuts, the prices of some items are as given below. If Sarah buys 2 lb of cashews, 1 lb of walnuts, and 2 lb of raisins, how much did she have to pay? 59) _____

Item	Cost/lb
Almonds	$4.20
Walnuts	$3.80
Cashews	$4.70
Pecans	$3.70
Raisins	$3.20

A) $23.40 B) $15.80 C) $19.60 D) $26.60

Solve the problem.

60) Below is a map of a trail through a forest preserve. Using the scale on the map, estimate the distance of the route starting at the fishing dock and ending at the ranger station. 60) _____



A) ≈ 21 km B) ≈ 15 km C) ≈ 12 km D) ≈ 24 km

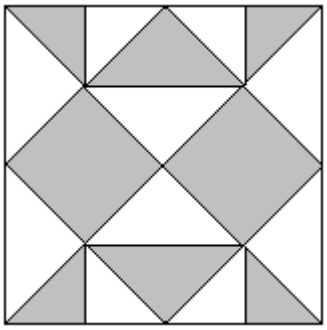
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61) Estimate the maximum number of smaller figures (at left) that can be placed in the larger figure (at right) without the small figures overlapping. 61) _____



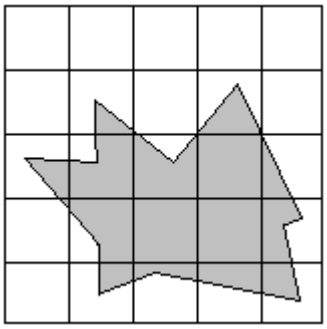
A) 20 B) 24 C) 17 D) 15

62) Estimate the percent of area that is shaded in the following figure. 62) _____



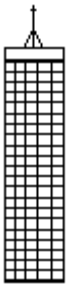
A) 80% B) 40% C) 25% D) 50%

63) If each square represents one square unit, estimate the area of the shaded figure in square units. 63) _____



A) 10 square units B) 7 square units C) 8 square units D) 6 square units

64) The height of the antenna on top of the building, shown in the figure below, is 65 feet. Estimate the total height of the building and antenna together. 64) _____



A) 390 feet B) 455 feet C) 520 feet D) 325 feet

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65) A small farm field is a square measuring 320 ft on a side. What is the perimeter of the field? If you double the length of each side of the field, what is the new perimeter? 65) _____

A) 1280 ft, 2560 ft B) 320 ft, 1280 ft C) 640 ft, 2560 ft D) 640 ft, 1280 ft

66) An electric pole 16 ft high casts a shadow that is 8 ft long. What is the length of the shadow of a 24–ft pole? 66) _____

A) 12 ft B) 15 ft C) 9 ft D) 2 ft

67) An airport parking lot charges $5.00 for the first two hours of parking and $0.50 for each additional half hour or part thereof. If Sam parks his car for 7 hours, how much does he pay for parking? 67) _____

A) $5.00 B) $10.00 C) $7.00 D) $7.50

68) A telephone call from Texas, U.S.A. to Ontario, Canada costs $2.00 for the first minute and $0.50 for each additional minute. How much will a 30–minute call cost? 68) _____

A) $16.50 B) $15.00 C) $31.00 D) $14.50

69) Jill took five courses this semester, each for four credit hours. She received a B (3 points), a B+ (3.5 points), an A (4 points), and a B+ (3.5 points) in four of the courses. If her GPA is 3.4, what was her grade in the fifth course? 69) _____

A) D (1 point) B) B+ (3.5 points) C) C+ (2.5 points) D) B (3 points)

70) One gallon of a driveway sealant covers an area of 180 ft^2. How many gallons of the sealant are needed to cover a 1080 ft^2 driveway? 70) _____

A) 9 gal B) 3 gal C) 6 gal D) 8 gal

71) Margaret is saving $25 every week so that she can have enough money to buy a bracelet she wants. The bracelet costs $752. What is the minimum number of weeks she will have to save to be able to buy the bracelet? 71) _____

A) 31 weeks B) 32 weeks C) 30 weeks D) 29 weeks

72) To make orange juice from concentrate powder, you need to mix 2 teaspoons of the concentrate in 16 ounces of water. How much concentrate powder do you need for 1 gallon of water? 72) _____

A) 8 teaspoons B) 10 teaspoons C) 16 teaspoons D) 4 teaspoons

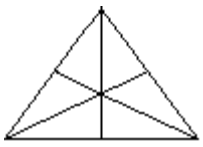
73) The cost of gasoline is $4.70 per gallon. Jane's car gives a mileage of 36 miles per gallon. Approximately how much did Jane pay for gasoline for a trip of 613 miles? 73) _____

A) $75.20 B) $98.70 C) $89.30 D) $80.03

74) A rectangle has area of 1176 square meters. Its length and width are whole numbers. Which measurements give the smallest perimeter? 74) _____

A) 28 m by 42 m B) 7 m by 168 m C) 6 m by 196 m D) 1 m by 1176 m

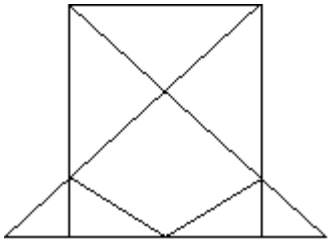
75) How many triangles (of any size) are there in the figure? 75) _____



A) 13 B) 15 C) 19 D) 16

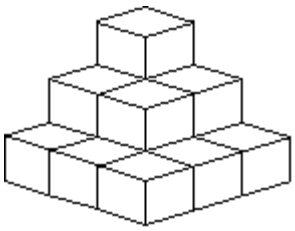
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76) How many triangles (of any size) are there in the figure? 76) _____



A) 14 B) 10 C) 9 D) 12

77) How many cubes (of any size) are there in the figure? 77) _____



A) 10 B) 14 C) 9 D) 15

78) Maria and Bill work at different jobs. Maria earns $7 per hour and Bill earns $5 per hour. They each earn the same amount per week but Bill works 2 more hours. How many hours a week does Bill work? 78) _____

A) 11 hr B) 7 hr C) 9 hr D) 5 hr

79) A boxer takes 3 drinks of water between each round for the first four rounds of a championship fight. After the fourth round he starts to take his three drinks plus one additional drink between each of the remaining rounds. If he continues to increase his drinks by 1 after each round, how many drinks will he take between the 14th and 15th round? 79) _____

A) 17 drinks B) 10 drinks C) 20 drinks D) 14 drinks

80) An average library contains at least 50 and at most 250 books. How many library owners must be polled to be certain that at least two owners have the same number of books in their libraries? 80) _____

A) 201 owners B) 203 owners C) 202 owners D) 200 owners

81) An average newspaper contains at least 16 pages and at most 87 pages. How many newspapers must be collected to be certain that at least two newspapers have the same number of pages? 81) _____

A) 72 newspapers B) 71 newspapers C) 70 newspapers D) 73 newspapers

82) A cell has at least 3 and at most 47 nucleii. How many cells must a scientist view under his microscope to be certain that at least two cells have the same number of nucleii? 82) _____

A) 44 cells B) 45 cells C) 46 cells D) 47 cells

83) A yardstick measures $\frac{1}{2}$ by 2 by 36 inches. How many yardsticks will fit in a box 2 inches wide and 36 inches high, if the girth of the box is 24 inches? 83) _____

A) 60 yardsticks B) 48 yardsticks C) 10 yardsticks D) 40 yardsticks

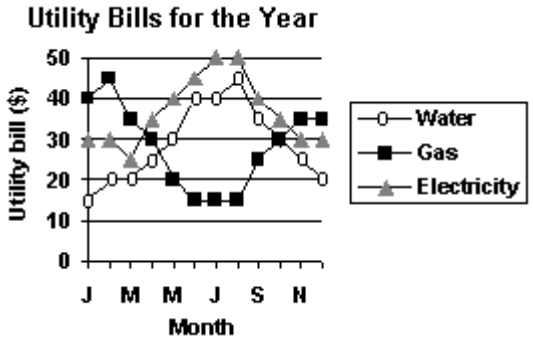
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84) A yardstick measures $\frac{1}{4}$ by 3 by 36 inches. How many yard sticks will fit in a box 3 inches wide and 36 inches high, if the girth of the box is 30 inches? 84) _____

A) 12 yardsticks B) 24 yardsticks C) 96 yardsticks D) 120 yardsticks

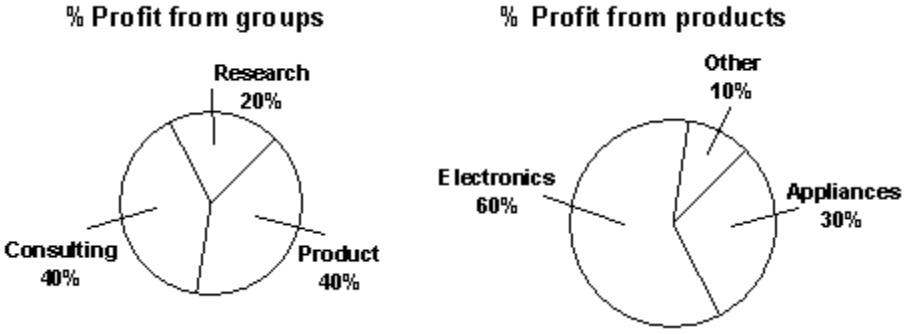
Use the table or graph to answer the question.

85) Amy graphed her utility bills for the last year for her records. Estimate the total amount Amy paid for her utilities for the month of January. 85) _____



A) $75 B) $125 C) $85 D) $105

86) Company MRK declared profits of $2,000,000 for the year 2012. The profits were from its three groups (research, product, and consulting) as shown in the pie chart. The profits from the product group were further categorized as shown in the second pie chart. How much was the profit from appliances? 86) _____



A) $600,000 B) $300,000 C) $240,000 D) $400,000

87) A company decides the bonus it gives to its employees on the basis of the number of years of service as shown in the following table: 87) _____

Number of years of service	Bonus
1–3	4% of salary
3–8	9% of salary
8–15	14% of salary
15 or more	20% of salary

If Anne gets a bonus of $4680 after working 4 years for this company, what is her salary?

A) $52,000 B) $10,400 C) $41,600 D) $26,000

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88) The number of vacation days a company provides for its employees depends on the number of years of service as shown in the following table: 88) _____

Number of years of service	1	1–5	5–10	10 or more
Number of vacation days	5	8	13	19

If Jack took 15 vacation days last year, what is the minimum number of years he must have worked for the company?

A) 11 B) 8 C) 10 D) 9

89) The following chart shows an appliance store's average percent profit margin on certain items: 89) _____

Product category	Average profit margin,%
Washer/Dryer	19
Refrigerator	16
Stove	15
Microwave	32

What is the average profit for the store if it lists the price of a particular refrigerator at $780?

A) $499.20 B) $107.59 C) $124.80 D) $249.60

Complete the magic (addition) square.

90) Use each number 22, 23, 24, 25, 26, 27, 28, 29, and 30 once. 90) _____

25		
24	26	
29	22	27

A)

25	28	30
24	26	23
29	22	27

B)

25	28	23
24	26	30
29	22	27

C)

25	30	28
24	26	23
29	22	27

D)

25	30	23
24	26	28
29	22	27

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91) Use each number 25, 26, 27, 28, 29, 30, 31, 32, and 33 once. 91) _____

32		28
25	29	
	31	26

A)

32	30	28
25	29	27
33	31	26

B)

32	33	28
25	29	27
30	31	26

C)

32	27	28
25	29	30
33	31	26

D)

32	27	28
25	29	33
30	31	26

92) Use each number 18, 19, 20, 21, 22, 23, 24, 25, and 26 once. 92) _____

21		19
	22	24
	18	

A)

21	25	19
20	22	24
23	18	26

B)

21	26	19
20	22	24
25	18	23

C)

21	26	19
20	22	24
23	18	25

D)

21	23	19
20	22	24
25	18	26

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93) Use each number 26, 27, 28, 29, 30, 31, 32, 33, and 34 once. 93) _____

	28	29
	30	34
		27

A)

32	28	29
26	30	34
31	33	27

B)

33	28	29
26	30	34
31	32	27

C)

31	28	29
26	30	34
33	32	27

D)

33	28	29
32	30	34
26	31	27

94) Use each number 29, 30, 31, 32, 33, 34, 35, 36, and 37 once. 94) _____

34		
	33	31
30	37	

A)

34	29	36
35	33	31
30	37	32

B)

34	29	35
36	33	31
30	37	32

C)

34	32	35
36	33	31
30	37	29

D)

34	32	36
35	33	31
30	37	29

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95) Use each number 50, 51, 52, 53, 54, 55, 56, 57, and 58 once. 95) _____

51		55
		50
53	52	

A)

51	56	55
57	54	50
53	52	58

B)

51	56	55
58	54	50
53	52	57

C)

51	57	55
58	54	50
53	52	56

D)

51	57	55
58	56	50
53	52	54

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1) A
2) B
3) B
4) A
5) D
6) D
7) B
8) A
9) C
10) B
11) D
12) D
13) B
14) D
15) C
16) D
17) C
18) D
19) B
20) B
21) C
22) A
23) A
24) A
25) B
26) C
27) D
28) 5 + 4 + 3 + 2 + 1 = 15 rectangles
    8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 = 36 rectangles
29) 6 + 5 + 4 + 3 + 2 + 1 = 21 rectangles
    10 + 9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1 = 55 rectangles
30) 8 ways
    34 ways
31) 4 + 3 + 2 + 1 = 10 segments
    6 + 5 + 4 + 3 + 2 + 1 = 21 segments
32) 6 teams: 5 + 4 + 3 + 2 + 1 = 15 games
    7 teams: 6 + 5 + 4 + 3 + 2 + 1 + = 21 games
    n teams : $\frac{n(n-1)}{2}$ games
    14 teams: 91 games
33) B
34) A
35) B
36) C
37) B
38) A
39) B
40) C
41) A
42) C

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43) D
44) C
45) A
46) C
47) D
48) D
49) D
50) B
51) C
52) C
53) B
54) B
55) B
56) B
57) D
58) B
59) C
60) B
61) A
62) D
63) C
64) B
65) A
66) A
67) B
68) A
69) D
70) C
71) A
72) C
73) D
74) A
75) D
76) A
77) D
78) B
79) D
80) C
81) D
82) C
83) B
84) D
85) C
86) C
87) A
88) C
89) C
90) D
91) D
92) B

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93) B
94) A
95) B

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