## Survey of Mathematics with Applications 9th Edition Angel Test Bank

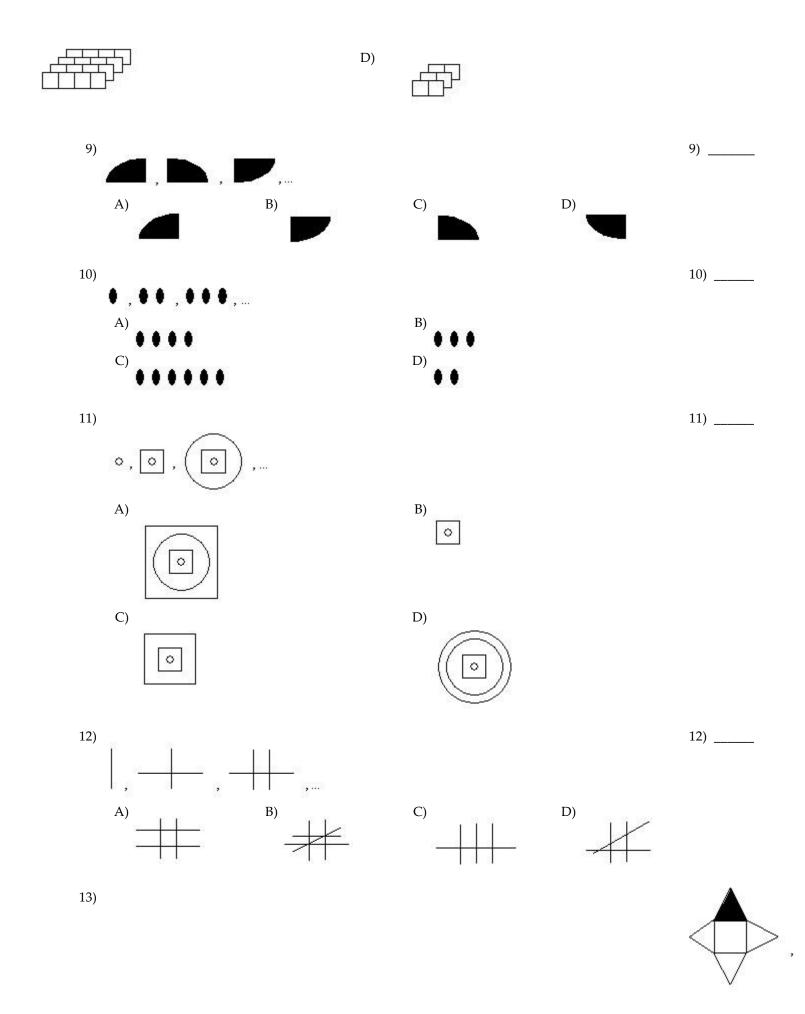
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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. Use inductive reasoning to predict the next line in the pattern.

Use inductive reasoning to predict the next line in the patter 1) $9 \times 9 = 81$	.11.	1)
$99 \times 99 = 9801$		/
999 × 999 = 998,001		
A) 999 × 9999 = 99,980,001	B) 9999 × 9999 = 999,001	
C) 9999 × 9999 = 1,000,001	D) 9999 × 9999 = 99,980,001	
2) (1 × 9) - 5 = 4		2)
(21 × 9) - 5 = 184		
$(321 \times 9) - 5 = 2884$		
A) $(4321 \times 9) - 5 = 3883$	B) (432 × 9) - 5 = 38,884	
C) (4321 × 9) - 5 = 38,884	D) (4321 × 9) - 5 = 28,884	
3) 6 × 8 = 7 × 9 - 15		3)
$8 \times 10 = 9 \times 11$ - 19		
A) 10 × 12 = 11 × 13 - 21	B) 10 × 12 = 13 × 19 - 23	
C) $10 \times 12 = 11 \times 13 + 21$	D) 10 × 12 = 11 × 13 - 23	
4) $(7 \times 1) \times (2 \times 1) = 14$		4)
$(7 \times 10) \times (2 \times 2) = 280$		
$(7\times100)\times(2\times3)=4200$		
A) $(7 \times 1000) \times (2 \times 4) = 5600$	B) $(7 \times 1000) \times (2 \times 4) = 49,000$	
C) $(7 \times 1000) \times (2 \times 4) = 63,000$	D) (7 × 1000) × (2 × 4) = 56,000	
5) 9 × 10 = 11 × 12 - (9 + 10 + 11 + 12)		5)
$10 \times 11 = 12 \times 13$ - (10 + 11 + 12 + 13)		
A) $11 \times 12 = 13 \times 14 - (11 + 12 + 13 + 14)$		
B) $12 \times 13 = 14 \times 15 - (11 + 10 + 9 + 8)$		
C) $12 \times 13 = 14 \times 15 - (12 + 13 + 14 + 15)$		
D) $11 \times 12 = 13 \times 14 - (9 + 10 + 11 + 12 + 13 + 14)$		
6) 18 + 81 = 99		6)
19 + 91 = 110		
A) 20 + 101 = 162 B) 20 + 101 = 121	C) 88 + 33 = 121 D) 101 + 20 = 121	
7) 40 - 9 = 31		7)
400 - 89 = 311		
4000 - 789 = 3211		
A) 400,000 - 6789 = 33,211	B) 4000 - 6789 = 33,211	
C) 40,000 - 6789 = 33,211	D) 40,000 - 6789 = 393,211	
Draw the next figure in the pattern.		
8)		8)
A)	B)	

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C)



13) A) C)		B) D)		
				14)
A)	B)			
Use inductive reasoning to predi	at the most mumber in th			
15) 2, 8, 14, 20, 26				15)
	B) 31	C) 32	D) 38	15)
15) 2, 8, 14, 20, 26			D) 38 D) 0	15) 16)
15) 2, 8, 14, 20, 26 A) 28 16) 27, 23, 19, 15, 11	B) 31	C) 32		
15) 2, 8, 14, 20, 26 A) 28 16) 27, 23, 19, 15, 11 A) 4 17) 6, -18, 54, -162, 486	B) 31 B) 2	C) 32 C) 7	D) 0	16)
15) 2, 8, 14, 20, 26 A) 28 16) 27, 23, 19, 15, 11 A) 4 17) 6, -18, 54, -162, 486 A) 810 18) 0, 4, 4, 0, -4,	B) 31 B) 2 B) - 810	C) 32 C) 7 C) - 1458	D) 0 D) 1458	16) 17)
<ul> <li>15) 2, 8, 14, 20, 26 A) 28</li> <li>16) 27, 23, 19, 15, 11 A) 4</li> <li>17) 6, -18, 54, -162, 486 A) 810</li> <li>18) 0, 4, 4, 0, -4, A) 8</li> </ul>	<ul> <li>B) 31</li> <li>B) 2</li> <li>B) - 810</li> <li>B) 4</li> </ul>	C) 32 C) 7 C) - 1458 C) - 4	D) 0 D) 1458 D) 0	16) 17) 18)
15) 2, 8, 14, 20, 26 A) 28 16) 27, 23, 19, 15, 11 A) 4 17) 6, -18, 54, -162, 486 A) 810 18) 0, 4, 4, 0, -4, A) 8 19) $\frac{1}{3} \frac{1}{9}, \frac{1}{27}, \frac{1}{81},$ A) $\frac{1}{243}$ 20) 3, 5, 6, 10, 12, 20, A) 18 Solve the problem using inductive	B) 31 B) 2 B) - 810 B) 4 B) $\frac{1}{729}$ B) 24 ve reasoning.	C) 32 C) 7 C) - 1458 C) - 4 C) $\frac{1}{243}$	D) 0 D) 1458 D) 0 D) <u>1</u> 729	16)         17)         18)         19)         20)
15) 2, 8, 14, 20, 26 A) 28 16) 27, 23, 19, 15, 11 A) 4 17) 6, -18, 54, -162, 486 A) 810 18) 0, 4, 4, 0, -4, A) 8 19) $\frac{1}{3} \frac{1}{9}, \frac{1}{27}, \frac{1}{81},$ A) $\frac{1}{243}$ 20) 3, 5, 6, 10, 12, 20, A) 18	B) 31 B) 2 B) - 810 B) 4 B) $\frac{1}{729}$ B) 24 ve reasoning.	C) 32 C) 7 C) - 1458 C) - 4 C) $\frac{1}{243}$	D) 0 D) 1458 D) 0 D) <u>1</u> 729	16)         17)         18)         19)

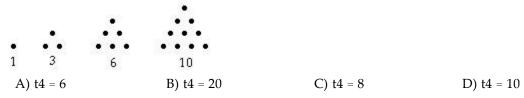
22) Find the next term in the following sequence.

T, F, S, E,	Т, Т, Ғ		
A) F	B) E	C) T	D) S

23) Find the 4th square number that corresponds to the following dot sequence.



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



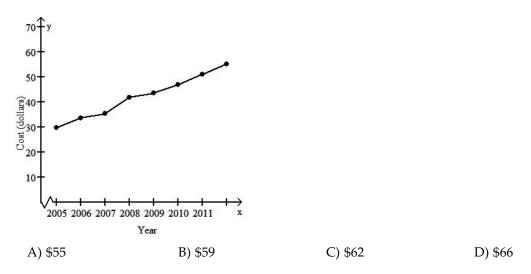
25) How many line segments are used in the next figure?



26) How many triangles are in the next figure?



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.



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

22) \_\_\_\_

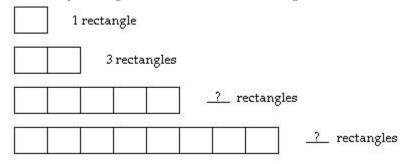
23) \_

24)

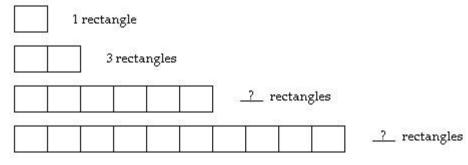
25) \_\_\_\_

26) \_\_\_

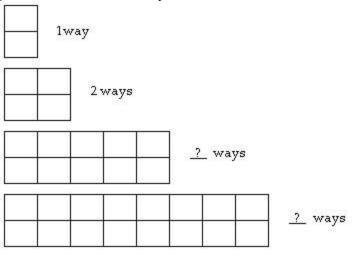
28) How many rectangles are there in the last two figures?



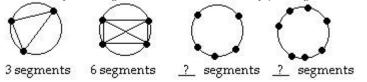
29) How many rectangles are there in the last two figures?



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



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



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.

Number of trems Number of Find the teams number to a ms games played in a round robin tournament Loo

31) \_\_\_\_\_

28) \_\_\_\_\_

29) \_\_\_\_\_

teams. 32)	
Find the	
number	
of games	
played in	_
a round	
robin	
tournam	
ent	
involvin	
g 16	
teams.	

# MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. Estimate the answer by rounding.

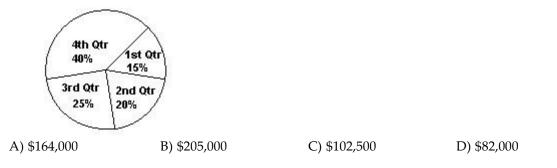
Est11	mate the answer by rounding.				
	33) 98 + 37 + 66 + 62 + 18				33)
	A) 280	B) 281	C) 300	D) 290	
	34) 57 - 24				34)
	A) 40	B) 80	C) 30	D) 33	
	35) 948 + 809 + 649 + 352 + 10	)5			35)
	A) 2800	B) 2900	C) 2860	D) 2863	,
	36) 870 - 137				36)
	A) 1000	B) 733	C) 700	D) 800	,
	37) 816 - 557				37)
	A) 300	B) 259	C) 200	D) 260	,
	38) 122 × 6929				38)
	A) 140,000	B) 1,200,000	C) 700,000	D) 600,000	,
	39) 61,688 ÷ 484				39)
	A) 1100	B) 120	C) 1200	D) 110	,
	40) 32,478				40)
	476				,
	A) 50	B) 500	C) 60	D) 600	
Estin	mate the answer to the probler	n.			
	41) Each gallon of shingle sta	in covers 120 square feet.	How many gallons should	ld you buy to cover	41)
	658 square feet? A) 6 gal	B) 4 gal	C) 5 gal	D) 7 gal	
		, 0	, 0		40)
	42) One cook can make enou 1239 people a night?	gn food for 350 people a r	light. How many cooks a	re needed to feed	42)
	A) 3 cooks	B) 6 cooks	C) 4 cooks	D) 5 cooks	
	43) David's company has to s	ship 1982 boxes of sprinkl	ers. If a truck can hold 55	) boxes, how many	43)
	trucks does he need to sh			5	
	A) 5 trucks	B) 2 trucks	C) 4 trucks	D) 3 trucks	

44) A particular freight elevator can safely carry 1164 pounds. How many 120-pound bundles of wood can be safely carried by this elevator?				
A) 5 bundles	B) 7 bundles	C) 8 bundles	D) 9 bundles	
45) Each gallon of porch an cover 961 square feet?	nd deck paint covers 200	square feet. How many	gallons are needed to	45)
A) 4 gal	B) 6 gal	C) 5 gal	D) 3 gal	
46) Jane runs 1 2 miles a da Jane runs in 5 8 days.	ay. Without finding the	exact answer, estimate the	e total number of miles	46)
A) 1200 mi	B) 600 mi	C) 500 mi	D) 3000 mi	
47) An appliance store sell total amount of money	0	k. Without finding the ex ek if each refrigerator cos		47)
A) \$24,000	B) \$16,000	C) \$18,000	D) \$27,000	
48) James' drive from hom then how many miles o		ne way. If in a month he ; n home to work and back	6	48)
A) 1750 mi	B) 1500 mi	C) 900 mi	D) 1200 mi	
49) A mobile library has 89 many books, on averag	93 books in its collection se, are stacked on each s		the library, then how	49)
A) 60 books	B) 50 books	C) 55 books	D) 46 books	
and she estimates a tot	ls \$153. Car rental is \$5 al of \$50 per day for foo	er round-trip airfare from 56 per day and her hotel i d, gas, and miscellaneous estimate her total expense	s a total of \$113 per day, items. If Ingred is	50)
A) \$370	B) \$1030	C) \$1280	D) \$1080	

#### Estimate the answer from the table or graph.

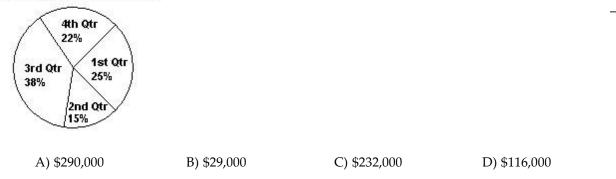
51) The profit earnings for ABC company are reported quarterly. The earnings as a percentage of the 51) \_\_\_\_\_\_ yearly earnings for 2012 are shown in the pie chart. If the total earnings for the year were \$410,000, what were the earnings for the third quarter?

#### % Earnings of ABC Company



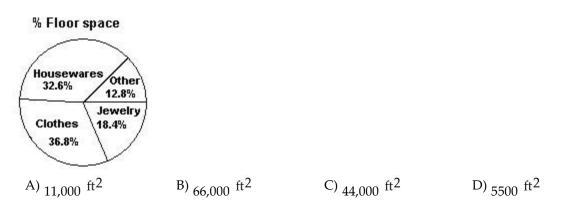
52) The profit earnings for XYZ company are reported quarterly. The earnings as a percentage of the yearly earnings for 2012 are shown in the pie chart. If the earnings in the first quarter were \$58,000, what were the earnings for the whole year?

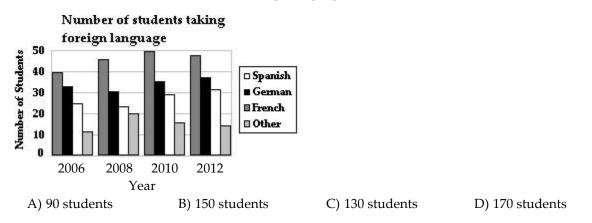
# % Earn high of XYZ Company



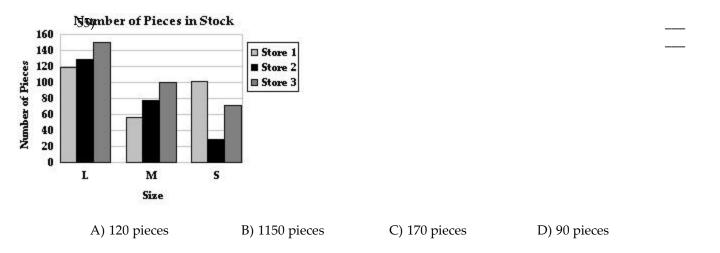
53) A retail store has items such that they fall under the categories of clothes, housewares, jewelry, 53) \_\_\_\_\_ and other. The percentage floor space allocated for displaying each category of items is shown in

the pie chart. If the floor space allocated to clothes is 22,000 <sup>ft<sup>2</sup></sup>, what is the floor space allocated to jewelry?

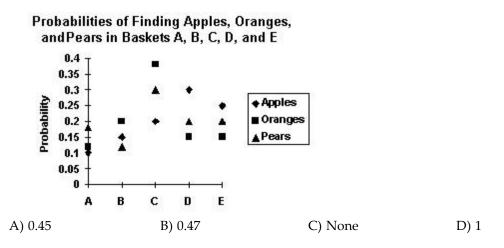




55) A retail chain has three stores that are carrying various sizes of a particular dress. The number of pieces of each size that a store has is shown in the graph below. If Store 1 sold 30 pieces of the large (L) size, how many does it still have?

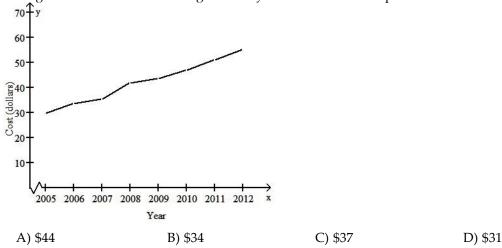


56) The probability of finding apples, oranges, and pears in each of baskets A, B, C, D, and E is shown in the graph given below. What is the probability of finding apples in one of the baskets A, B, or C?



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 2006.





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?

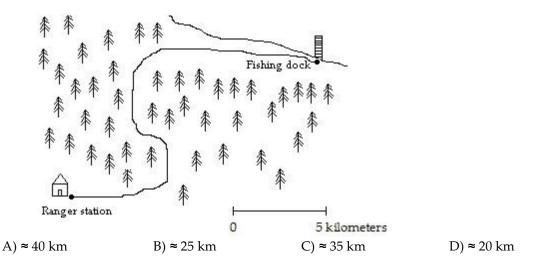
Food iten58)	Calories				
Glass of milk	155				
Bowl of cereal	115				
Slice of bread	60				
Fruit bowl	65				
Serving of salad	40				
A) 1	60 calories	B) 200 calories	C) 140 calories	D) 100 calories	

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

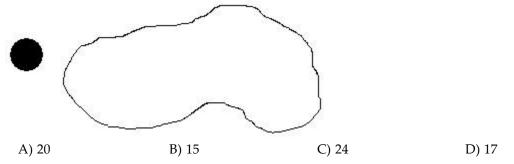
Item	Cost/lb			
Almonds	\$4.30			
Walnuts	\$3.80			
Cashews	\$4.80			
Pecans	\$3.80			
Raisins	\$3.50			
A) \$27.70	E	8) \$16.60	C) \$24.20	D) \$20.40

Solve the problem.

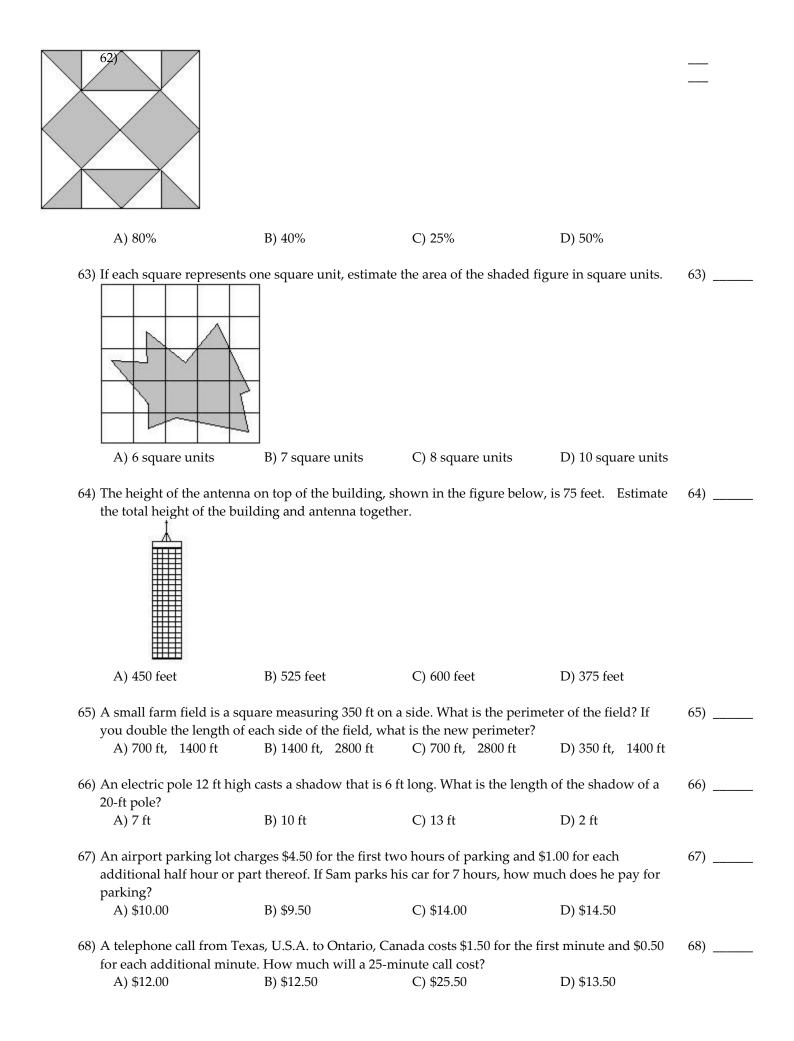
60) Below is a map of a trail through a forest preserve. Using the scale on the map, estimate the 60) \_\_\_\_\_\_\_\_\_ distance of the route starting at the fishing dock and ending at the ranger station.



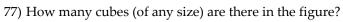
61) Estimate the maximum number of smaller figures (at left) that can be placed in the larger figure 61) \_\_\_\_\_ (at right) without the small figures overlapping.

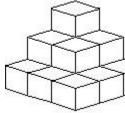


62) Estimate the percent of area that is shaded in the following figure.



69) Jill took five courses this semester, each for four credit hours. She received a <sup>B</sup> (3 points), a B <sub>+</sub> (3.5 points), an A (4 points), and a B <sub>+</sub> (3.5 points) in four of the courses. If her GPA is 3.4, what was her grade in the fifth course?				
A) B+ (3.5 points)	B) D (1 point)	C) B (3 points)	D) C+ (2.5 points)	
<sup>70)</sup> One gallon of a driveway needed to cover a 900 <sup>ft2</sup>		180 <sup>ft2</sup> . How many gallo	ns of the sealant are	70)
A) 2 gal		C) 5 gal	D) 7 gal	
71) Margaret is saving \$21 ev wants. The bracelet costs be able to buy the bracele	\$551. What is the minimu			71)
A) 27 weeks	B) 28 weeks	C) 26 weeks	D) 25 weeks	
72) To make orange juice from in 16 ounces of water. Ho	1 5			72)
A) 12.5 teaspoons	B) 20 teaspoons	C) 5 teaspoons	D) 10 teaspoons	
73) The cost of gasoline is \$4. Approximately how muc			per gallon.	73)
A) \$57.20	B) \$61.73	C) \$79.20	D) \$70.40	
74) A rectangle has area of 26 measurements give the sr		th and width are whole r	umbers. Which	74)
A) 1 m by 2646 m	B) 6 m by 441 m	C) 7 m by 378 m	D) 42 m by 63 m	
75) How many triangles (of a	ny size) are there in the fi	gure?		75)
	D) 10	0.45	D) 10	
A) 16	B) 13	C) 15	D) 19	
76) How many triangles (of a	ny size) are there in the fi	gure?		76)
	2 2			
A) 12	B) 10	C) 14	D) 9	



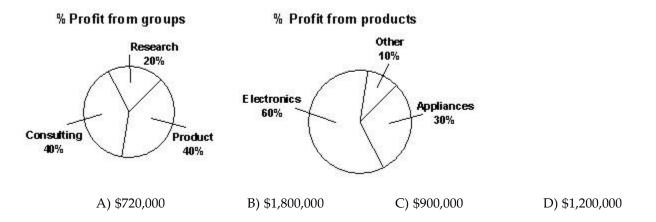


77)		<b>D</b> ) 10			
	A) 15	B) 10	C) 9	D) 14	
	78) Missy and Adam work a They each earn the same week does Adam work?	amount per week but Ad	-	-	78)
	A) 7 hr	B) 11 hr	C) 9 hr	D) 5 hr	
	each of the remaining ro	f water between each rou und he starts to take his tl unds. If he continues to ir e between the 14th and 15	hree drinks plus one add hcrease his drinks by 1 a	ditional drink between	79)
	A) 15 drinks	B) 14 drinks	C) 10 drinks	D) 19 drinks	
	80) An average library conta be polled to be certain th A) 200 owners	ains at least 50 and at mos nat at least two owners ha B) 202 owners	,		80)
	81) An average newspaper of must be collected to be of A) 72 newspapers	contains at least 16 pages a ertain that at least two ne B) 71 newspapers			81)
	82) A cell has at least 3 and a microscope to be certain A) 45 cells	at most 47 nucleii. How m that at least two cells hav B) 44 cells	-		82)
	83) <u>1</u>				83)
		by 2 by 36 inches. How r e girth of the box is 24 incl		in a box 2 inches wide	
	A) 10 yardsticks	B) 40 yardsticks	C) 60 yardsticks	D) 48 yardsticks	
	84) $\frac{1}{1}$				84)
	5	by 3 by 36 inches. How r girth of the box is 30 incl	5 5	in a box 3 inches wide	
	A) 24 yardsticks	B) 120 yardsticks	C) 12 yardsticks	D) 96 yardsticks	
Use t	<b>he table or graph to answer t</b> 85) Amy graphed her utility paid for her utilities for	bills for the last year for l	her records. Estimate the	e total amount Amy	85)
	Utility Bills for the				
	50 40 40 50 40 50 50 50 50 50 50 50 50 50 5	Gas			

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

86) Company MRK declared profits of \$6,000,000 for the year 2012. The profits were from its three groups

(research 86	<b>)</b>		
,			
product,			
and			
consultin			
g) as			
shown in			
the pie			
chart.			
The			
profits			
from the			
product			
group			
were			
further			
categoriz			
ed as			
shown in			
the			
second			
pie chart.			
How			
much			
was the			
profit			
from			
applianc			
es?			



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:

Number of years of service	Bonus
1-3	5% of salary
3-8	8% of salary
8-15	13% of salary
15 or more	20% of salary

If Anne gets a bonus of \$4240 after working 4 years for this company, what is her salary?

87) \_\_\_\_\_

A) \$42,400	B) \$10,600	C) \$26,500	D) \$53,000
-------------	-------------	-------------	-------------

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

Number of years of service11-55-1010 or moreNumber of vacation days4101220

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

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

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

Product category	Average profit margin,%
Washer/Dryer	17
Refrigerator	13
Stove	16
Microwave	40

What is the average profit for the store if it lists the price of a particular refrigerator at \$800? A) \$320.00 B) \$104.00 C) \$92.04 D) \$640.00

#### Complete the magic (addition) square.

90) Use each number 13, 14, 15, 16, 17, 18, 19, 20, and 21 once.



A)

-		-
6	19	14
5	17	21
0	13	18
	6 5 0	6 19 5 17 0 13

	-	
(	<u>`۱</u>	
	-1	

	16	21	14
1	15	17	19
	20	13	18

91) Use each number 12, 13, 14, 15, 16, 17, 18, 19, and 20 once.

19	111	15
12	16	-8
1	18	13

A)

19	14	15
12	16	20
17	18	13

B)	
~,	

B)

D)

19	17	15
12	16	14
20	18	13

15	17	14
20	13	18

19 16

	10-0-02
16	21
15	17

20 13

19 14 18

90)

89) \_\_\_\_

91) \_\_\_\_

1	7	١
C	_	)

	-		
	14	15	19 20 1
	16	17	12 16 1
D	_	13	17 18 1

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

25		23
Î	26	28
1	22	- 10

A)

25	27	23
24	26	28
29	22	30

25	29	23
24	26	28
27	22	30

C)

25	20	22
20	30	23
24	26	28
27	22	29

D)

B)

D)

B)

D)

	20	40
24	26	28
29	22	27

93) Use each number 20, 21, 22, 23, 24, 25, 26, 27, and 28 once.

	22	23
Î.	24	28
		21

A)

- 1		-	
	25	22	23
	20	24	28
	27	26	21
		_	

C)

27	22	23
20	24	28
25	26	21

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

31	1	Î
	30	28
27	34	

A)

31	26	32
33	30	28
27	34	29

î	2		
	26	22	23

26	22	23
20	24	28
25	27	21

22	23
24	28
25	21
	22 24 25

94) \_\_\_\_\_

92) \_\_\_\_

93) \_\_\_\_\_

- 2			
	31	29	32
	33	30	28
	27	34	26

C)

31	29	33
32	30	28
27	34	26

95) Use each number 60, 61, 62, 63, 64, 65, 66, 67, and 68 once.

1	61		65
		8-8	60
	63	62	

A)

C)

61	67	65
68	64	60
63	62	66

ŝ		(c) - (c)	_
	61	67	65
	68	66	60
	63	62	64

	`
к	۱
 υ	

D)

61	66	65
68	64	60
63	62	67

33

28

31 26

32 30

27 34 29

D)

61	66	65
67	64	60
63	62	68

B)

95) \_\_\_

```
1) D
 2) C
 3) D
 4) D
 5) A
 6) B
 7) C
 8) C
 9) D
10) A
11) A
12) A
13) A
14) B
15) C
16) C
17) C
18) C
19) C
20) B
21) C
22) D
23) C
24) D
25) A
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(n - 1)
                  2
   n teams :
                        games
    16 teams: 120 games
33) D
34) A
35) A
36) D
37) C
38) C
39) B
40) C
41) A
42) A
43) C
```

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ownl	load:
44)	D
45)	
46)	В
47)	A
48)	D
49)	
50)	
51)	C
52)	C
53)	A
54)	C
53) 54) 55)	D
56)	Δ
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69)	С
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71)	А
72)	
73)	В
74)	D
75)	А
76)	С
77)	А
78)	А
79)	В
80)	
81)	D
82)	С
	D
84)	
85)	
86)	А
87)	D
88)	
89)	
90)	
	А
92)	D
93)	С
94)	

95) B