

Name _____

9th Grade Summer Packet

Due: Wednesday SEPT 9, 2010

Work for each problem should be shown on separate paper and attached to this packet.

- 1** If the values are ordered from least to greatest, which would fit in the shaded box?



- A. $\frac{1}{4}$ C. $\frac{3}{8}$
 B. $\frac{2}{5}$ D. $\frac{4}{7}$

- 2** The mayor wants to know how many of the 180 art galleries in the city would participate in a sidewalk sale. To get an estimate, he surveys a small sample group of downtown gallery owners. If 24 of the 30 galleries in the sample group agree to participate, about how many total galleries will participate?

- A. 54 C. 144
 B. 72 D. 156

- 3** For the eighth grade dance, Jewel's mother made 9 gallons of Aunt Kitty's Party Punch. How many quarts of cranberry juice did she use?

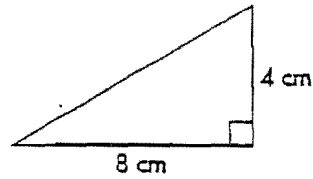
- A. 30
 B. 40
 C. 45
 D. 54

Aunt Kitty's Party Punch

5 quarts cranberry juice
 1 quart ginger ale
 1 scoop vanilla ice cream
 orange slices

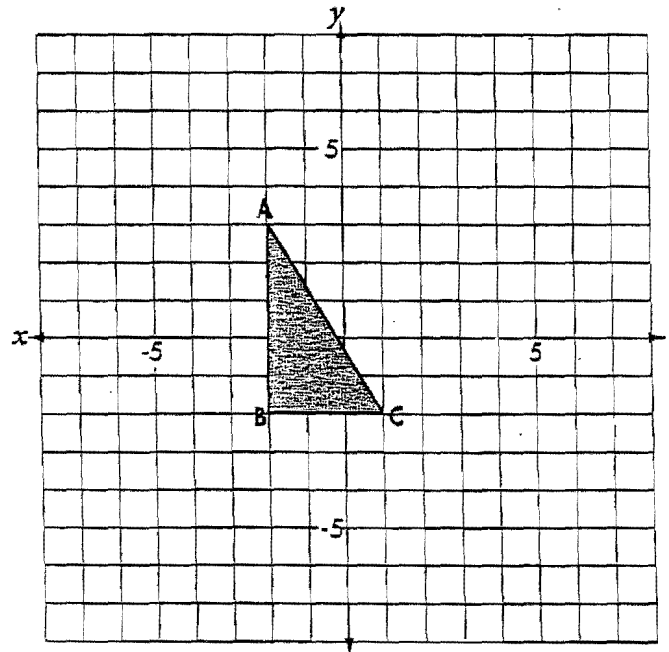
DIRECTIONS: Combine ingredients. Have fun.

- 4** When six right triangle tiles like the one shown below are combined to make a rectangle, what could be the perimeter?



- A. 30 cm C. 54 cm
 B. 40 cm D. 64 cm

- 5** When right triangle ABC is rotated 90° clockwise about point A, what will be the new coordinates of its hypotenuse?



- A. (-2, 3), (3, 6)
 B. (-7, 3), (-7, 0)
 C. (-2, 3), (-7, 0)
 D. (-2, 3), (-5, 8)



6 The surface area of a cube-shaped sculpture is 726 ft^2 . What is the length of one edge of the sculpture?

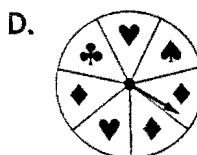
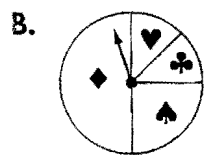
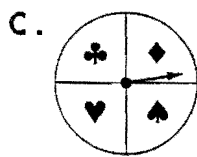
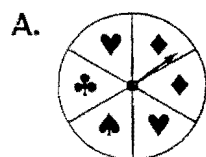
- A. 8.99 ft C. 30.25 ft
 B. 11 ft D. 121 ft

7 Allison bought 3 books of 19-cent stamps and two boxes of envelopes that cost \$1.89 per box. If a book of stamps contains 20 stamps, about how much did Allison pay for her entire purchase?

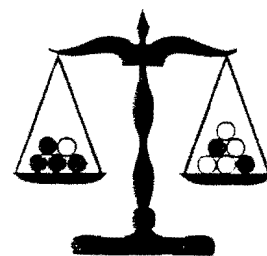
- A. \$11.00 C. \$16.00
 B. \$14.00 D. \$20.00

8 Anthony spun a spinner 175 times. The chart shows the results of his spin. More than likely, which spinner was Anthony using?

Landed on	Number of times
♣	24
♥	52
♦	72
♠	27



9 A black marble weighs 3 grams. Which equation could be used to determine the weight of a white marble (w)?



- A. $12 + w = 4w + 6$
 B. $4 + 3w = 2 + 3w$
 C. $18 + 5w = 0$
 D. $5 - w = 6 - 4w$

10 Elias ordered 5 compact disks for \$14.98 each from Musiczoo.com. He paid \$3.79 for shipping charges. The next week, Musiczoo.com announced a sale in which compact disks were discounted by 20% and shipping was free. If Elias had waited until the sale began to place his order, how much money would he have saved?

- A. \$14.98
 B. \$15.74
 C. \$18.77
 D. \$19.53

11 A chewing gum company placed a contest ticket inside each of 35,000 packs of gum. Of these packs, 20% contained an "instant win" contest ticket. Of the "instant win" contest tickets, 2% were for cash prizes. How many of the 35,000 packs of gum contained a contest ticket for a cash prize?

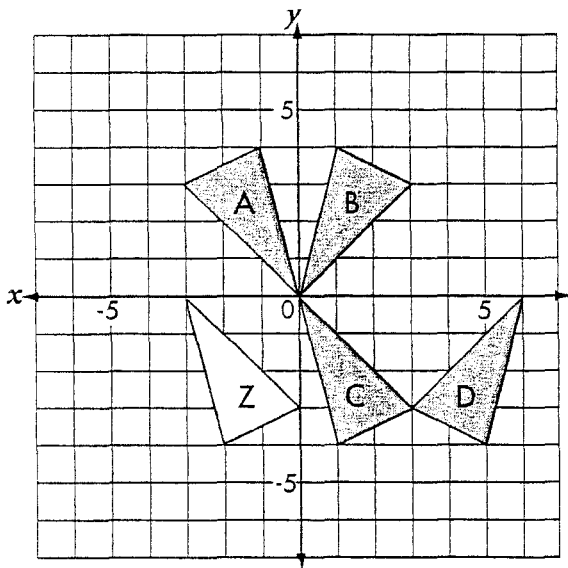
- A. 28 C. 875
 B. 140 D. 1,400

12 Which equation defines the value for y in the chart?

- A. $y = -2x$
 B. $y = 4x - 5$
 C. $y = 2x - 1$
 D. $y = 3x - 3$

x	y
-1	-6
2	3
3	6

13 Triangle Z is reflected across the x -axis and translated 3 units to the right. Which figure shows triangle Z in its new position?



- A. Figure A C. Figure C
 B. Figure B D. Figure D

14 This chart shows information about the four blood types. Which conclusion is best supported by the information on the chart?

Blood type	Antigens on red cells	Antibodies in plasma	Can receive blood type
A	A	B	A and O
B	B	A	B and O
AB	A and B	none	A, B, AB, O
O	none	A and B	O

- A. Type AB is the most useful blood type to have if you are giving blood.
 B. All blood types include type O.
 C. More people receive type AB blood than any other type.
 D. Type AB is the best blood type to have if you are receiving blood.

15 Brett has set his computer to automatically check his email every 15 minutes. If he turns on his computer at 9:10AM, at which of these times during the day will his email be automatically checked?

- A. 2:40PM
 B. 12:15PM
 C. 1:05PM
 D. 11:35AM

