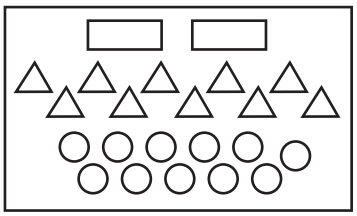
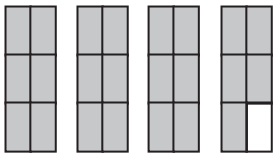
Math Madness #75

1. If ▭ = 1,000 △ = 100 and ○ = 10, what number is represented below?



a. 3,110
b. 3,101
c. 2,110
d. 2,101

2. Which pair of fractions shows the shaded part of this model?



a. $\frac{23}{6}$ and $3\frac{1}{6}$
b. $\frac{23}{5}$ and $3\frac{5}{6}$
c. $\frac{24}{6}$ and $3\frac{1}{5}$
d. $\frac{23}{6}$ and $3\frac{5}{6}$

3. Lucia has 28 chicken nuggets and 4 plates. She will put an equal number of chicken nuggets on each plate. How many nuggets will she put on each plate?

a. 24, because 28 − 4 = 24
b. 28, because 4 × 7 = 28
c. 7, because 28 ÷ 4 = 7
d. 32, because 28 + 4 = 32

4. There were 24 students playing on the playground. When the teacher blew her whistle, 6 students got in line. How many students were still on the playground?

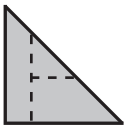
Which expression can be used to solve this problem?

a. 24 – 6
b. 24 ÷ 6
c. 24 + 6
d. 24 × 6

5. Farmer Shirley has a horse and a goat on her farm. Her horse weighs 892 kilograms. Her goat weighs 794 kilograms less than the horse. How much does Farmer Shirley's goat weigh?

a. 98 kilograms
b. 102 kilograms
c. 108 kilograms
d. 198 kilograms

6. Name the combined and subdivided shape shown. Be sure to include the number of shapes when the shape is subdivided.



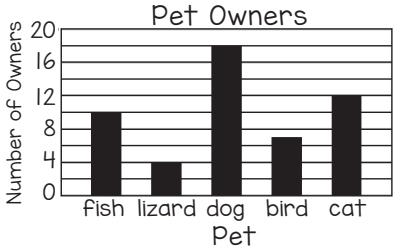
Combined = **triangle**

Subdivided = **2 trapezoids, 1 triangle**

7. This bar graph shows the pets owned by third grade students at an elementary school.

Which pet is owned by 10 people?

a. fish
b. lizard
c. bird
d. cat



8. Prisha made this number pattern.

210, 180, 150, 120, 90

Which pattern below follows the same rule?

a. 30, 60, 90, 120, 150
b. 630, 530, 430, 330, 230
c. 135, 105, 75, 45, 15
d. 130, 110, 90, 70, 50

9 & 10 (2 points) Constructed Response

A bakery sells cupcakes in small and large boxes. Each small box holds 4 cupcakes and costs $8. Each large box holds 9 cupcakes and costs $15. Alicia needs to buy 26 cupcakes for a party. How many large and/or small boxes of cupcakes should Alicia buy to *avoid any leftovers*? How much money will Alicia spend? Be sure to show all your work.

Number of small boxes **2** Number of large boxes **2**

Total cost **$46**