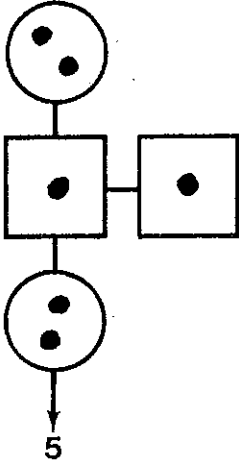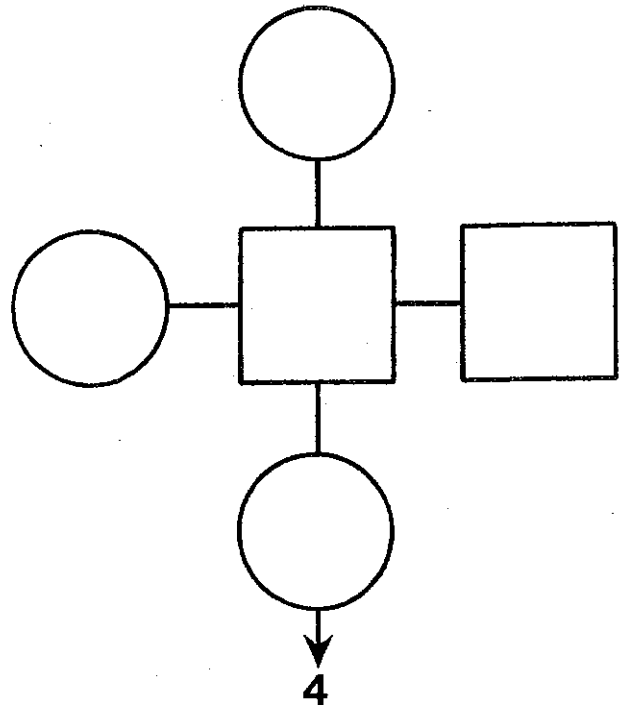These puzzles have 2 rules.

a) You must put the same number of pebbles in all the shapes that are the same.

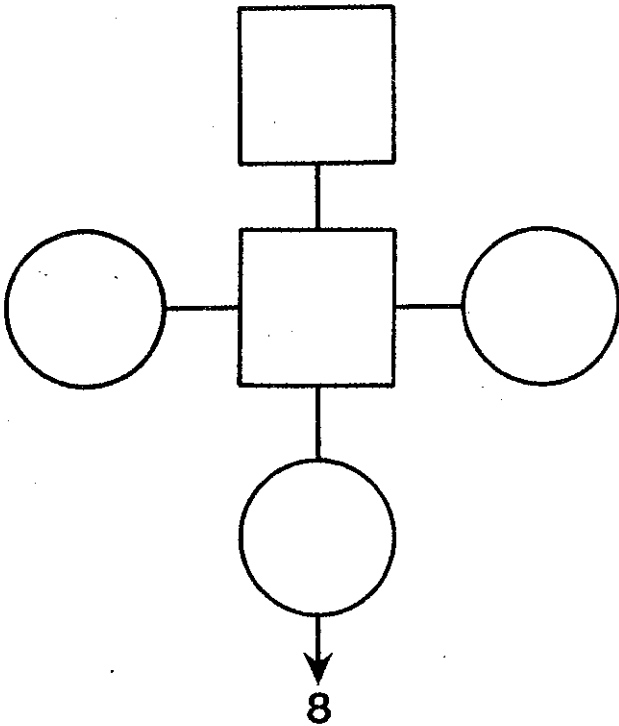b) The total number of pebbles in a line must be the same as the number shown by the arrow.
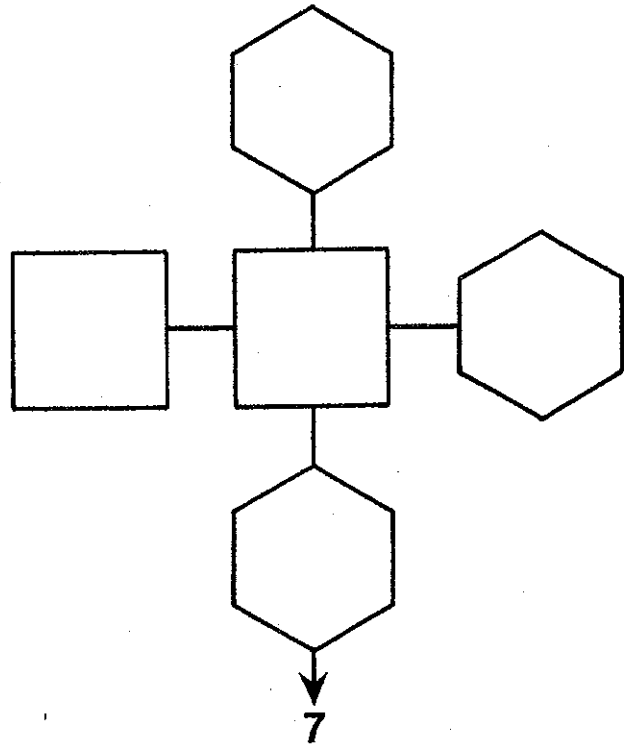
Example: Use 6 pebbles.

5

1. Use 7 pebbles.

4

2. Use 12 pebbles.

8

3. Use 13 pebbles.

7

Operations 1
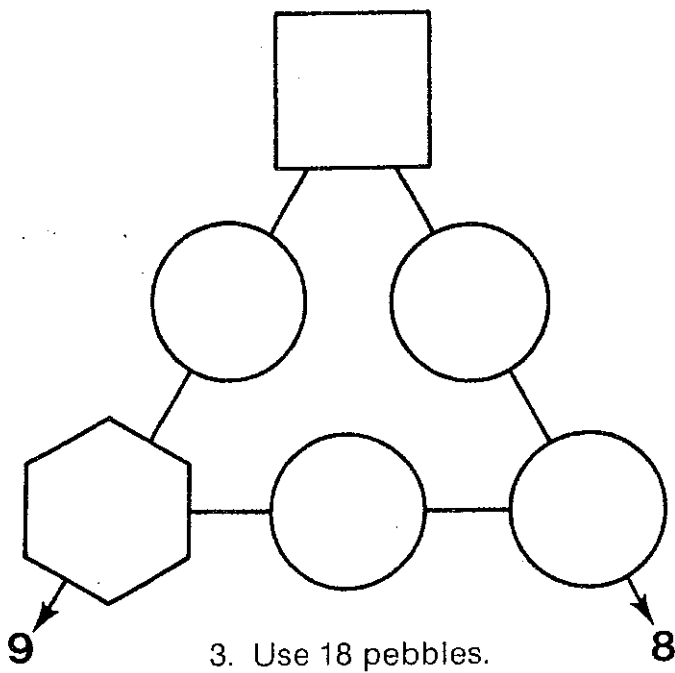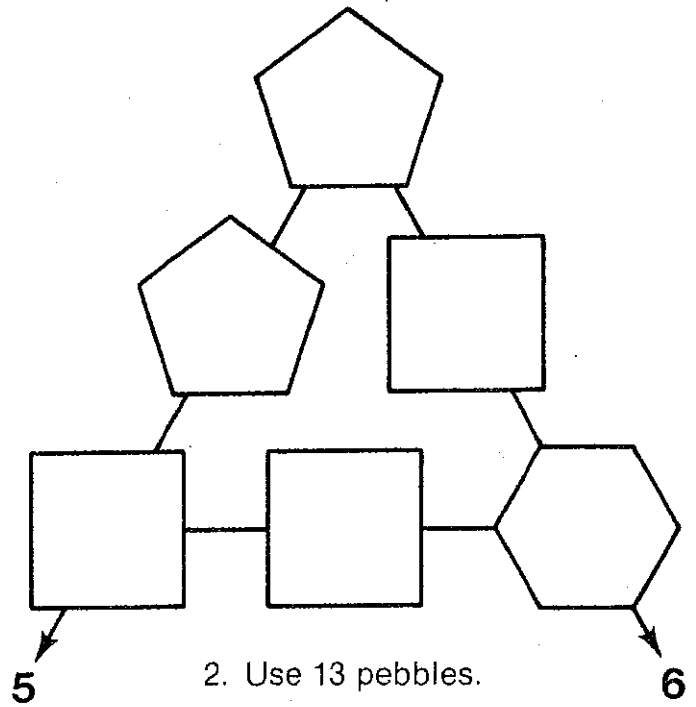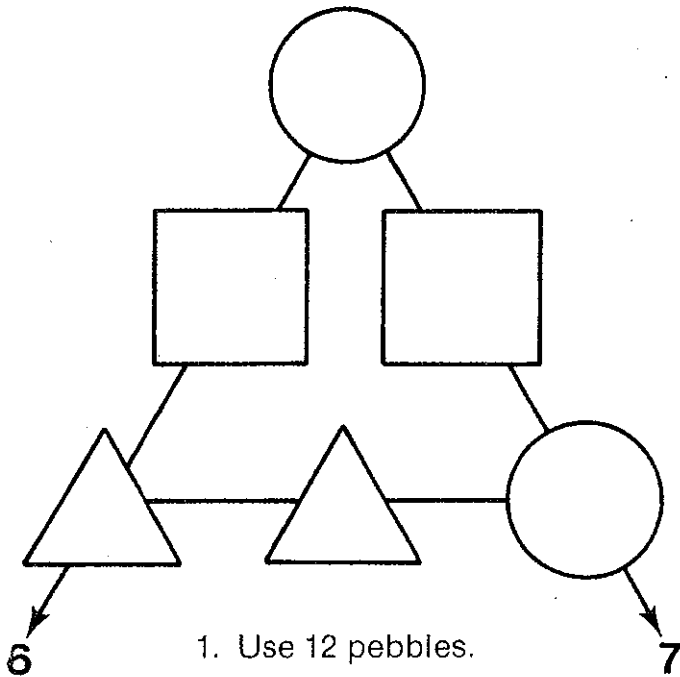
These puzzles have 3 different shapes. Remember the 2 rules.
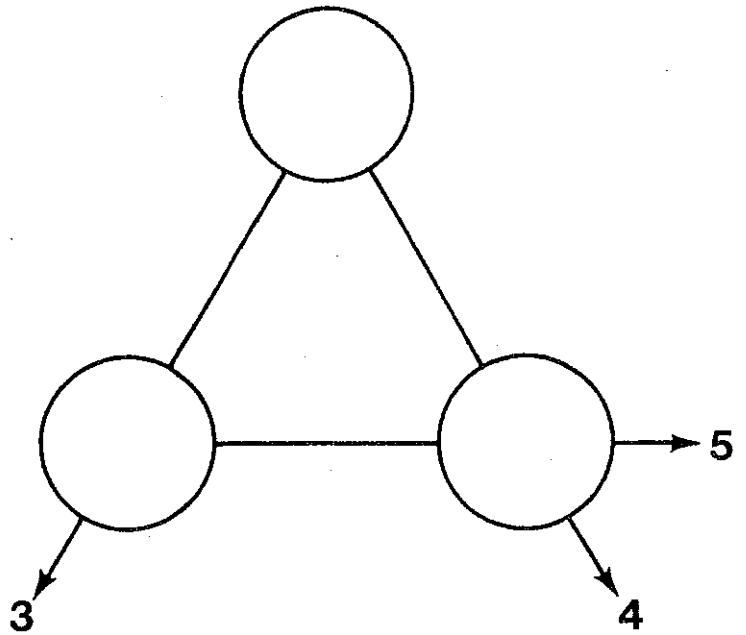 a) You must put the same number of pebbles in all the shapes that are the same.

  b) The total number of pebbles in a line must be the same as the number
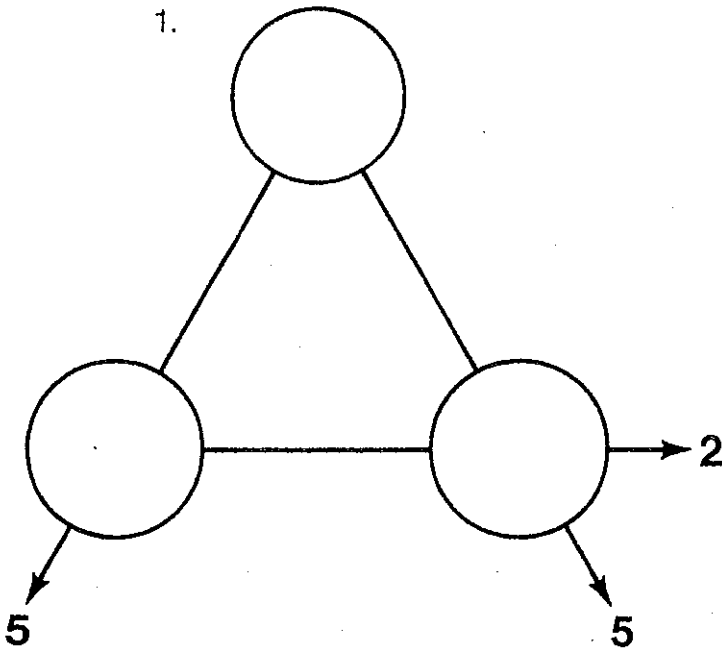   shown by the arrow.

1. Use 12 pebbles.

6   7

2. Use 13 pebbles.

5   6

3. Use 18 pebbles.

9   8

4. Use 17 pebbles.

8   12
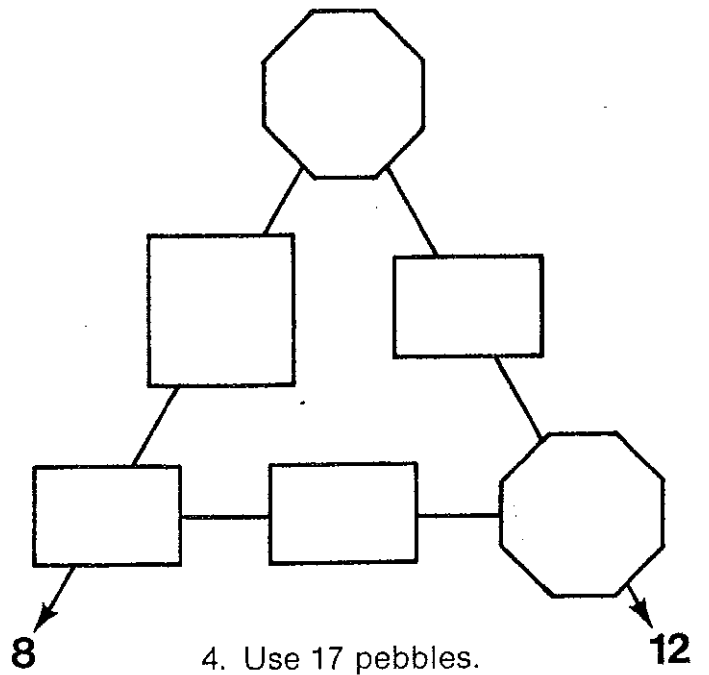
You need 6 pebbles.

Put the 6 pebbles in the circles so that the totals of pebbles on the sides of the triangle are 3, 4, and 5.

5
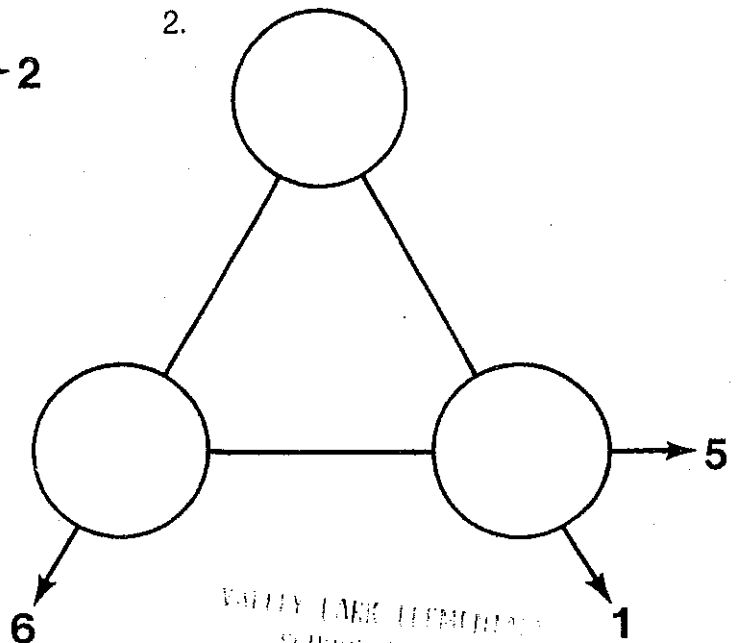
3   **4**

Now make the other totals shown.

1.

2

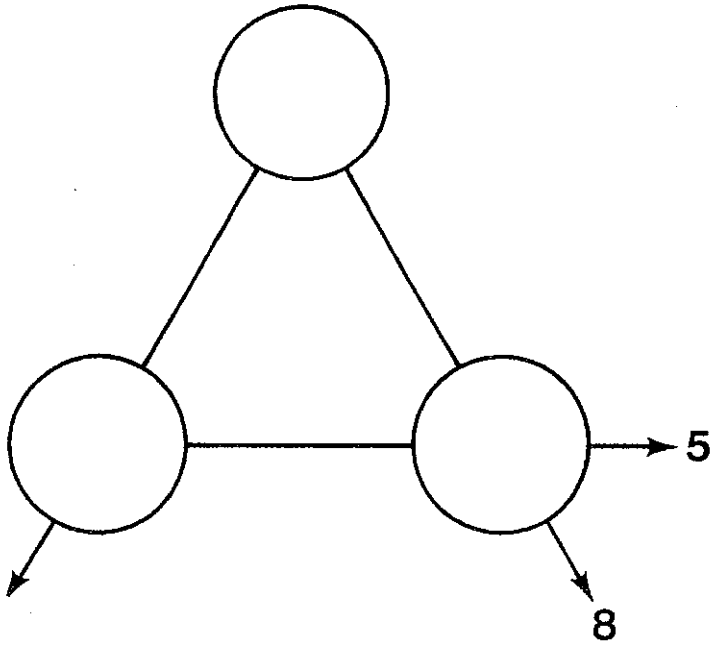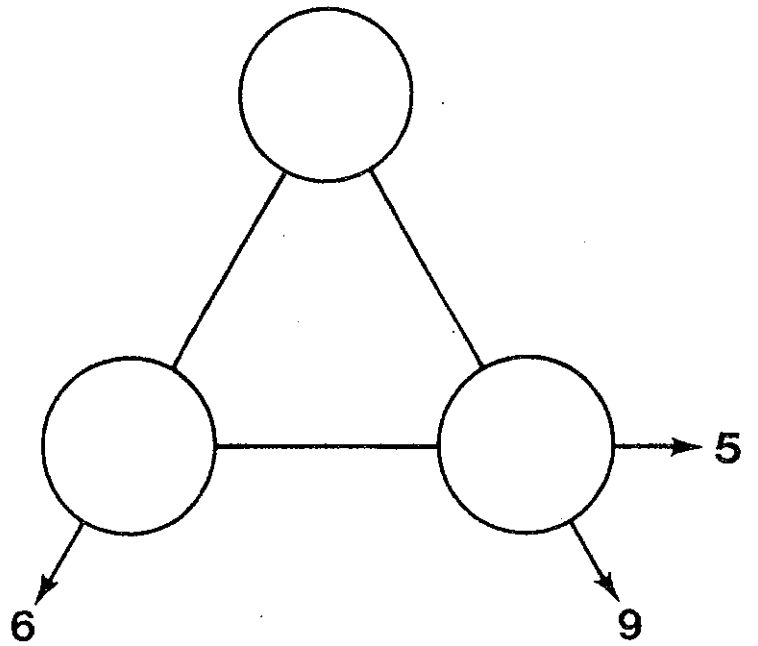**5**   **5**

2.

5

6   **1**

Operations 3

You need 10 pebbles.

Make the totals shown in the drawings below.

1.

→ 5

8

2.

→ 5

6   9

3.

→ 4

8

4.

→ 8

3   9

Use 8 pebbles.

Put them in the circles so they make the totals shown in the drawings below.

1.

2.

Use 10 pebbles.

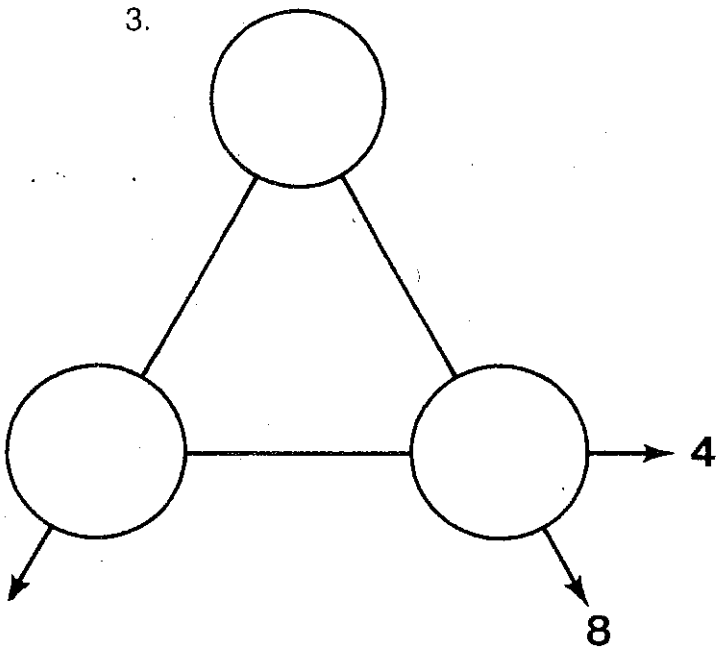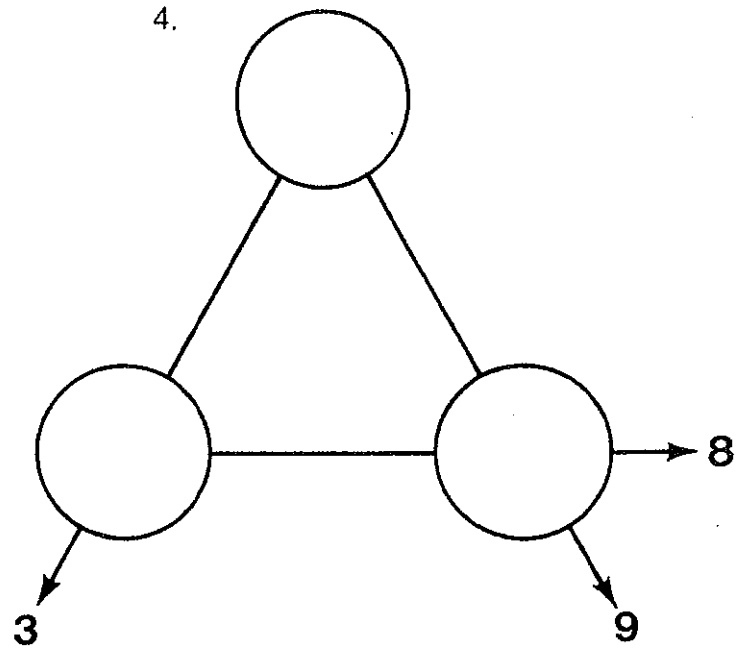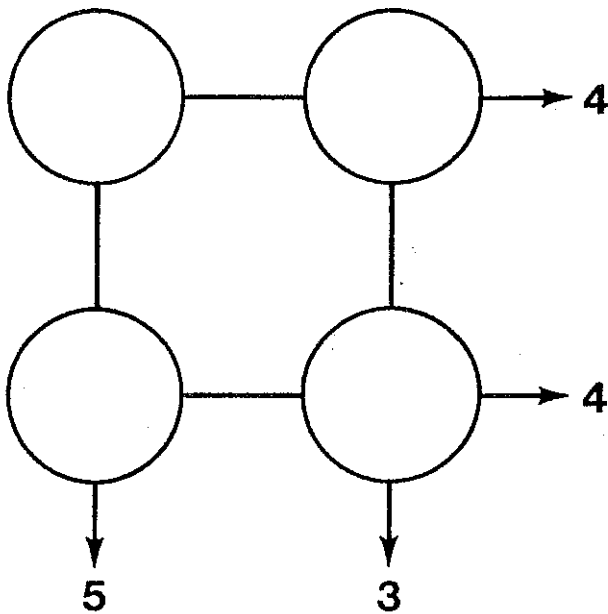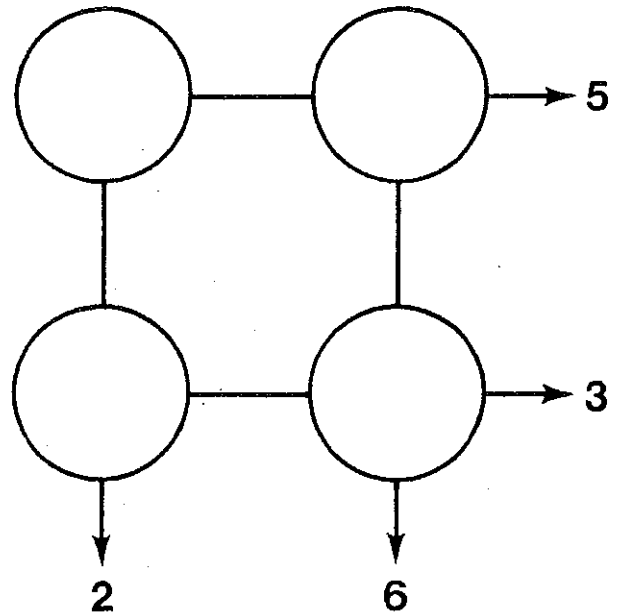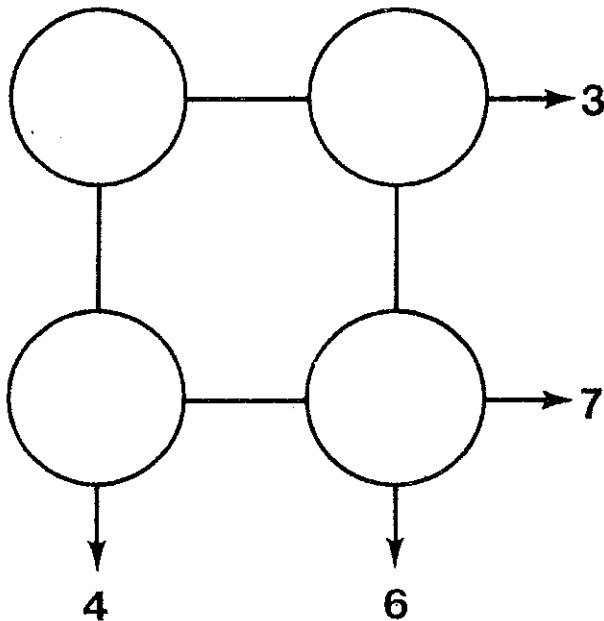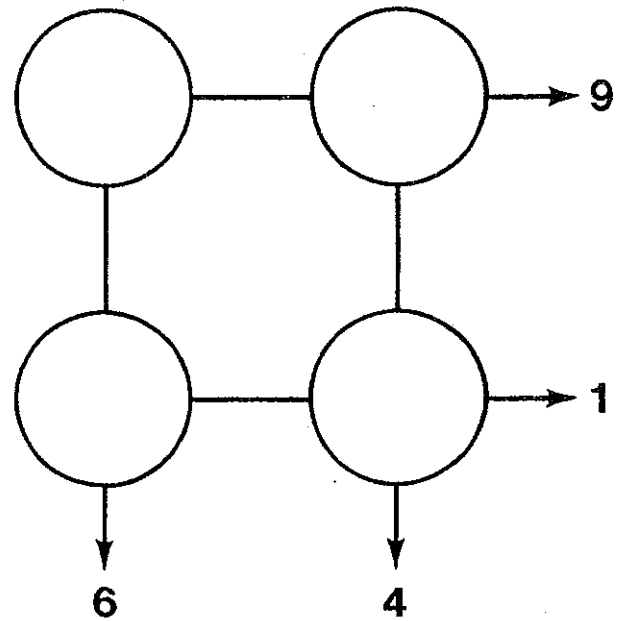Put them in the circles so they make the totals shown in the drawings below.
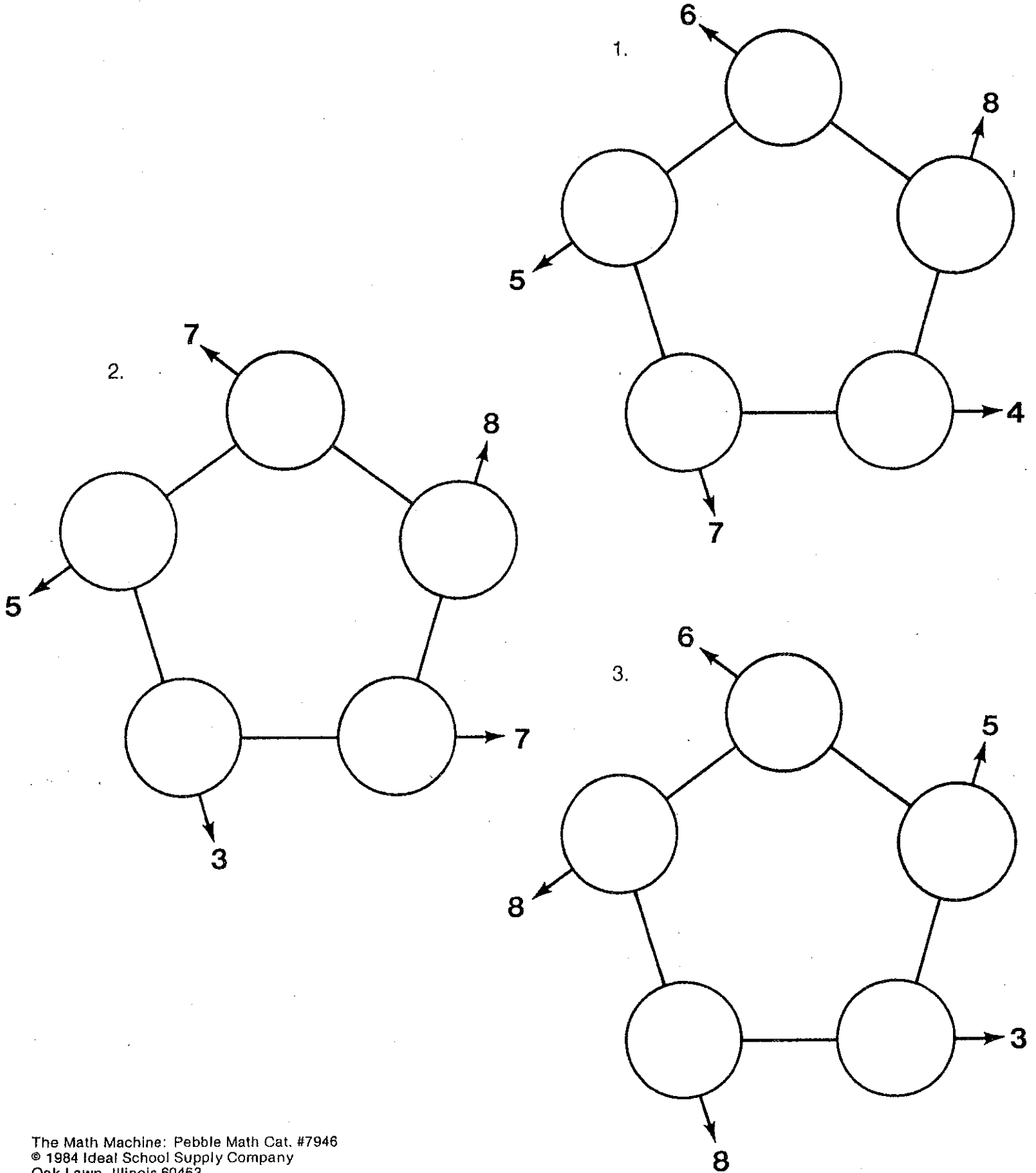
3.

4.

Use 15 pebbles.

Put them in the circles so they make the totals shown in the drawings below.

1.

6
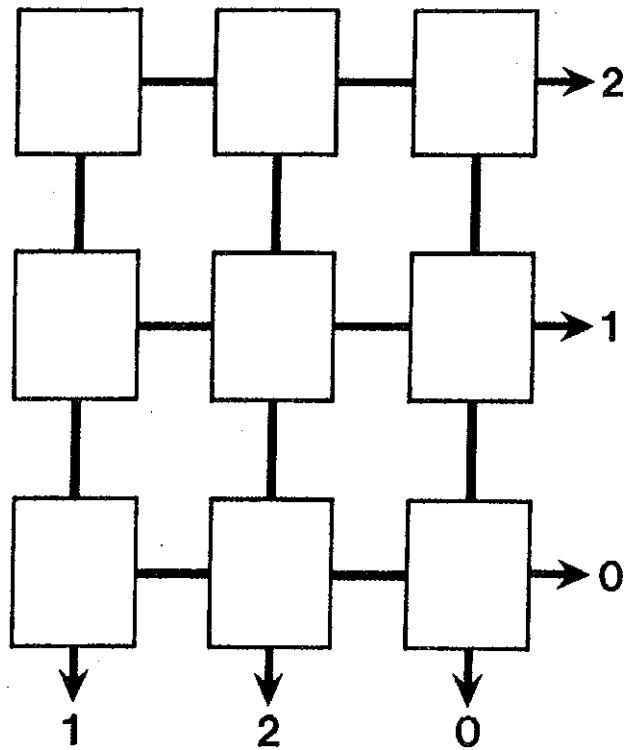
8

5

4

7

2.

7

8

5

7

3

3.

6

5

8

3

8

You will need up to 10 pebbles. You may put 1 pebble in each box, but no more than 1. Put the pebbles in boxes so that they add up to the numbers shown for each row and column.
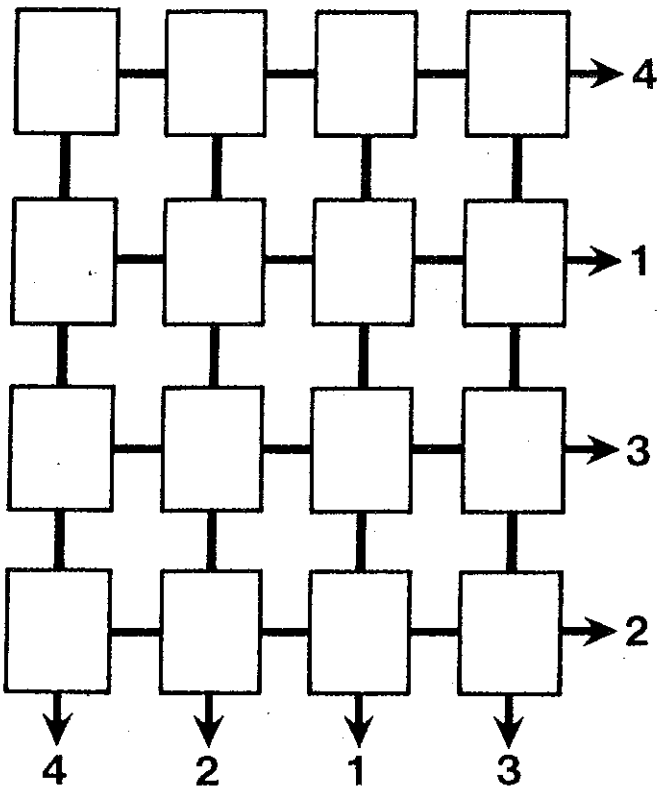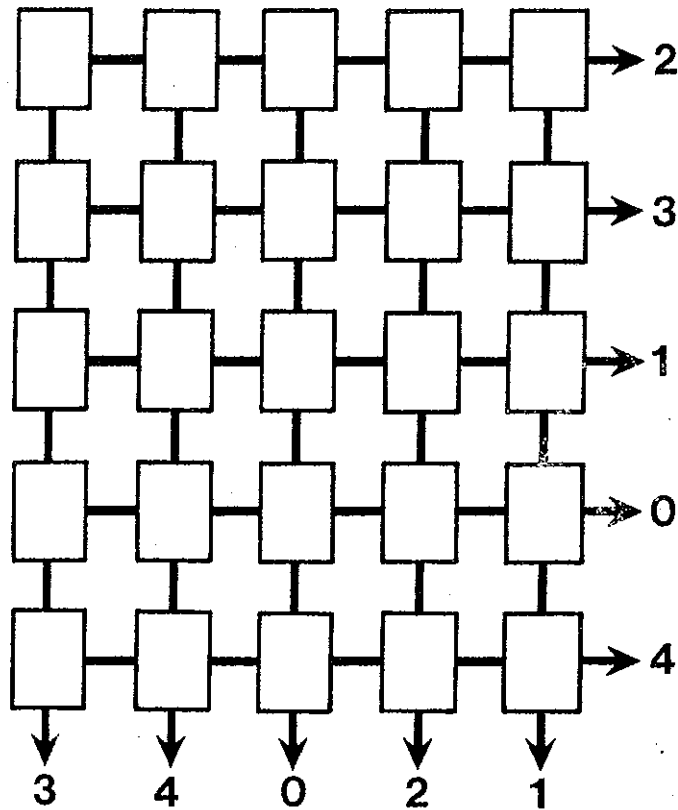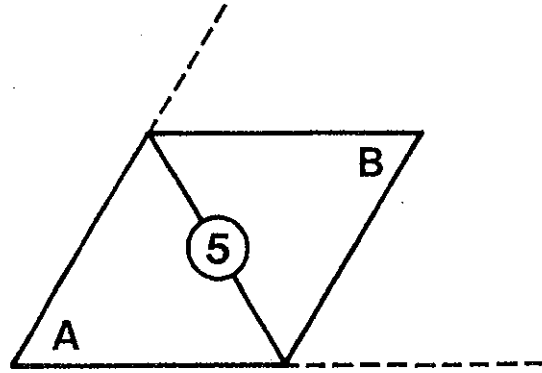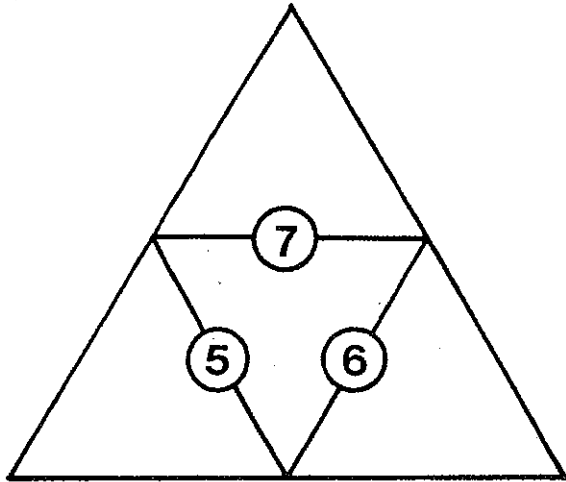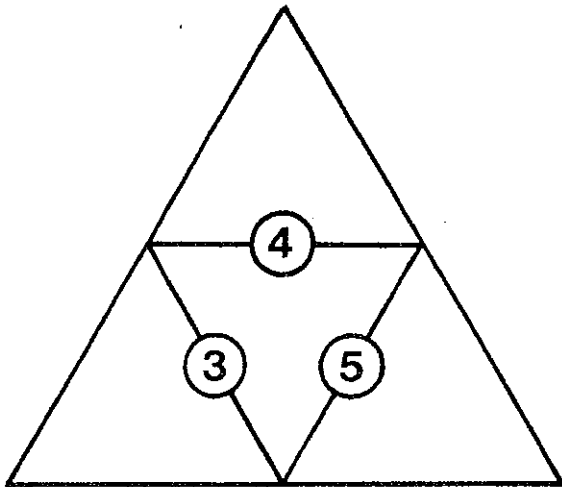
1.
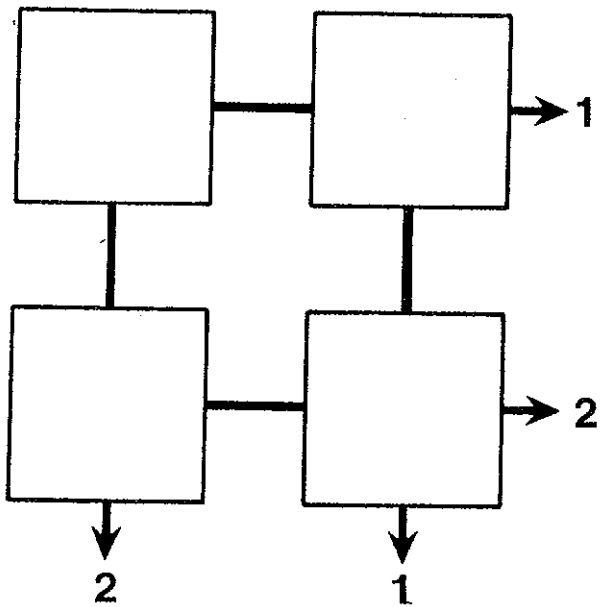
2.

3.

4.

1. Use 10 pebbles. Put them in the 4 triangles so that the number of pebbles in every 2 joined triangles equals the number in the circle.
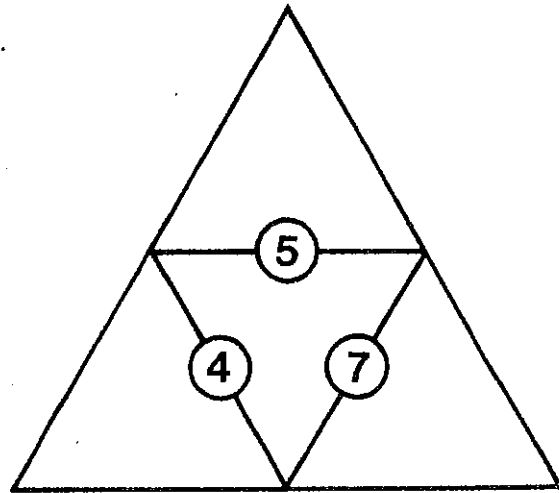
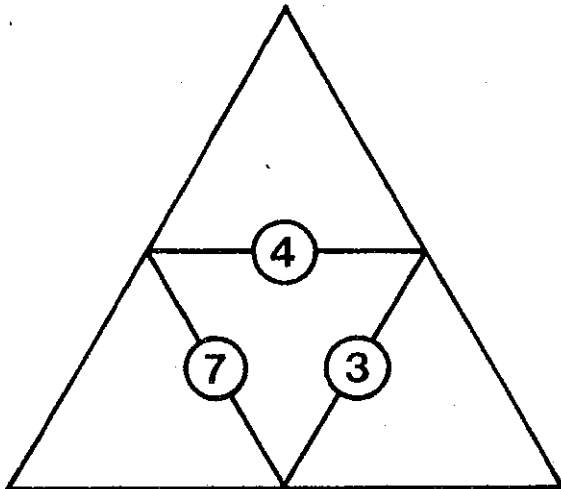Example: There could be 1 pebble in A and 4 in B, or 2 pebbles in A and 3 in B, and so on.
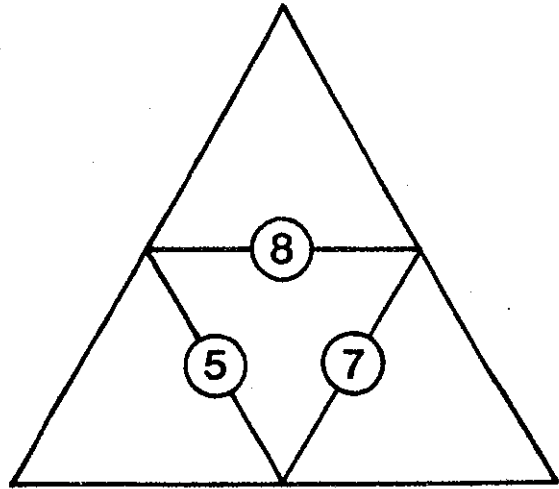

2.

3.

4.

5.

Operations 8
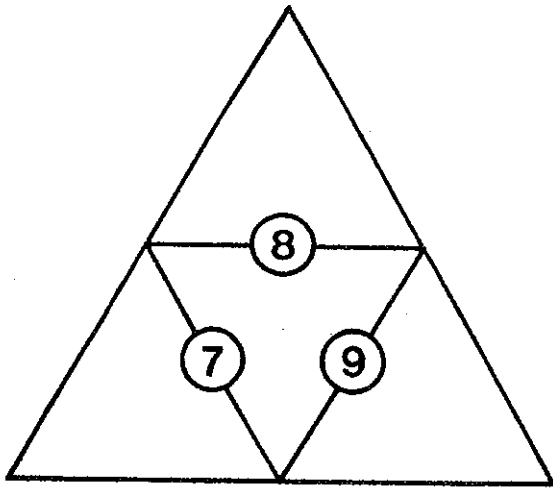
1. Use 12 pebbles.
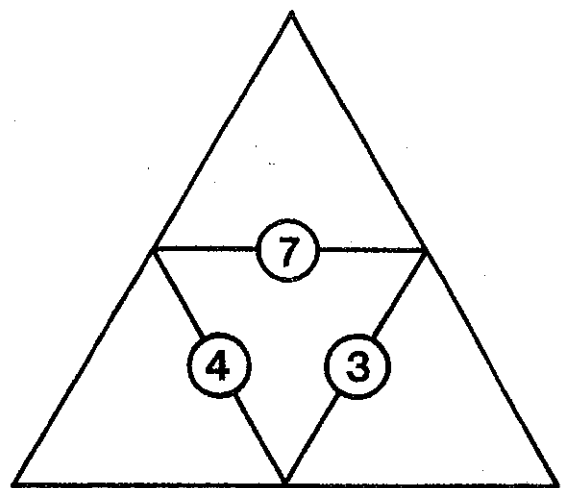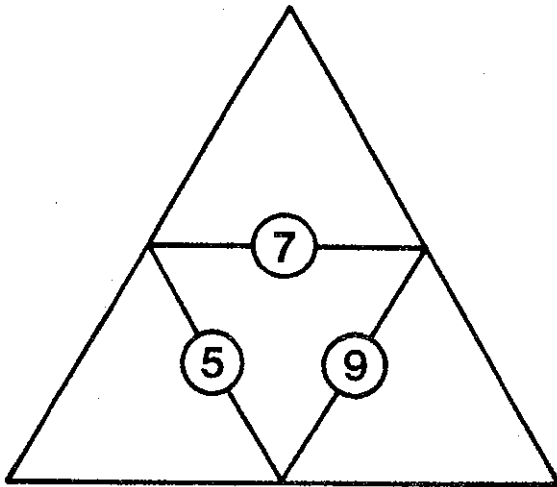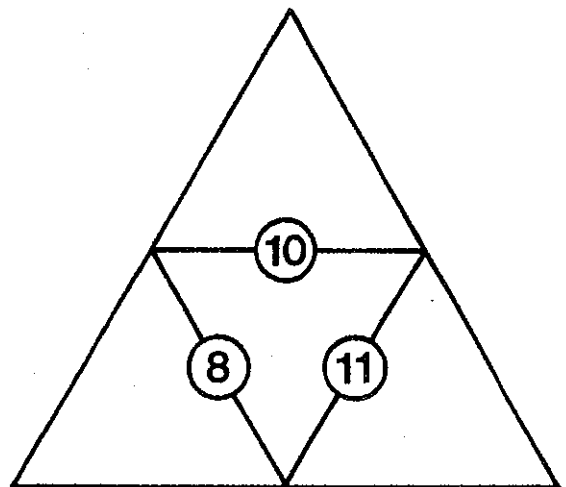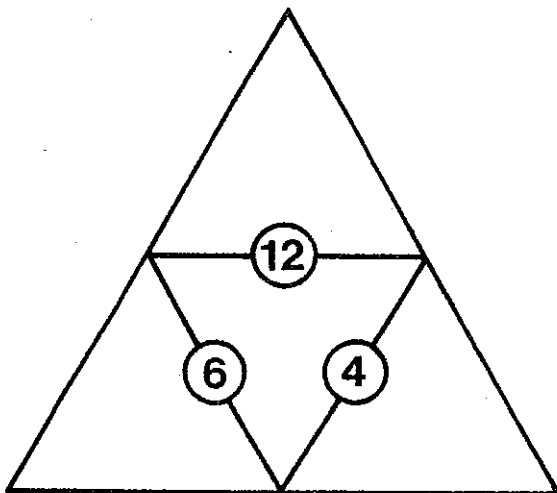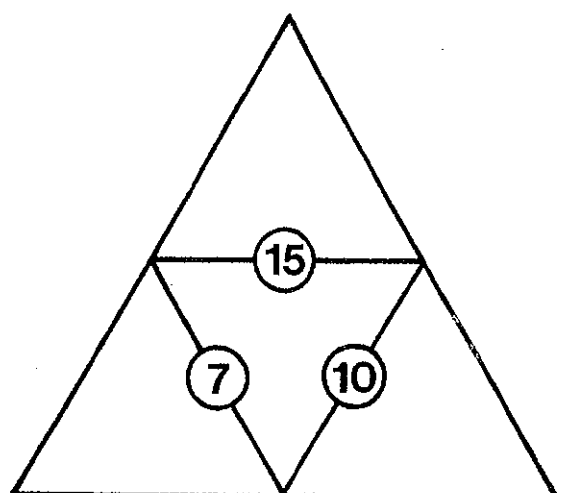
2. Use 12 pebbles.

3. Use 13 pebbles.
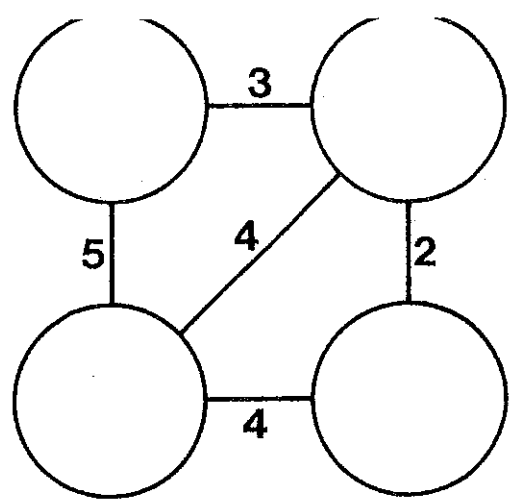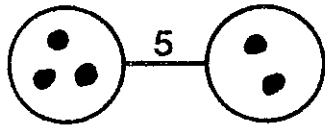
4. Use 15 pebbles.

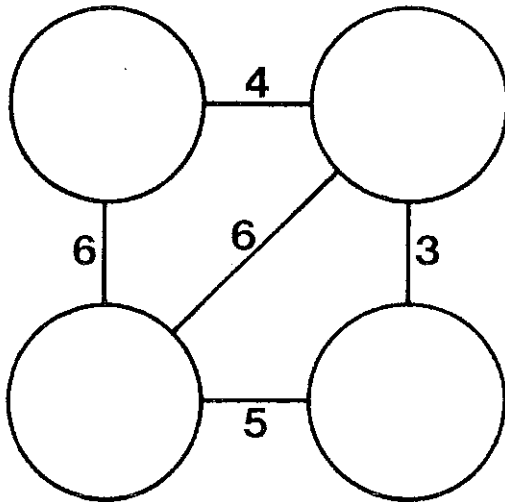5. Use 18 pebbles.

6. Use 18 pebbles.

Use the number of pebbles each puzzle requires. Put the pebbles in the 4 triangles so that the number of pebbles in every 2 joined triangles equals the number in the circle.

Use the number of pebbles each
puzzle requires. Put them in the
circles so that the sum of the
pebbles in 2 circles equals the
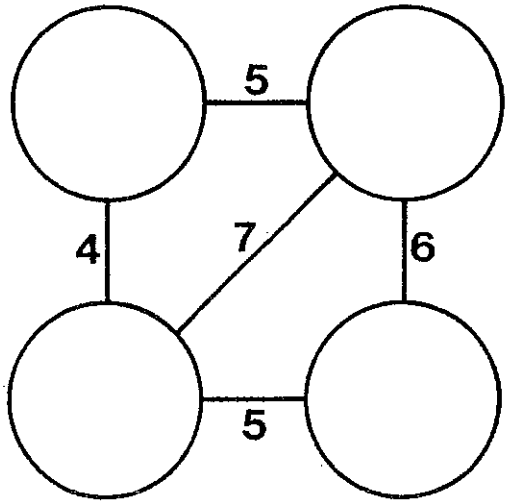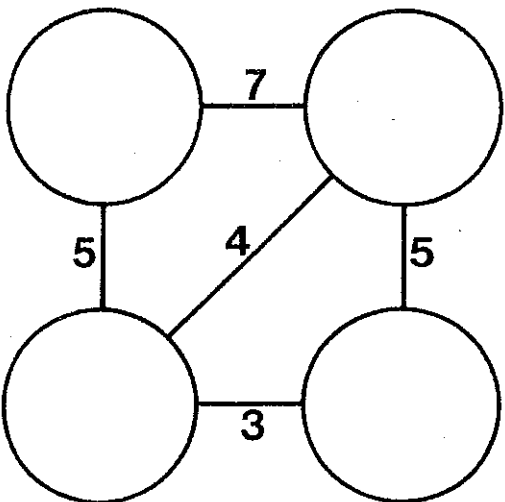number by the line.
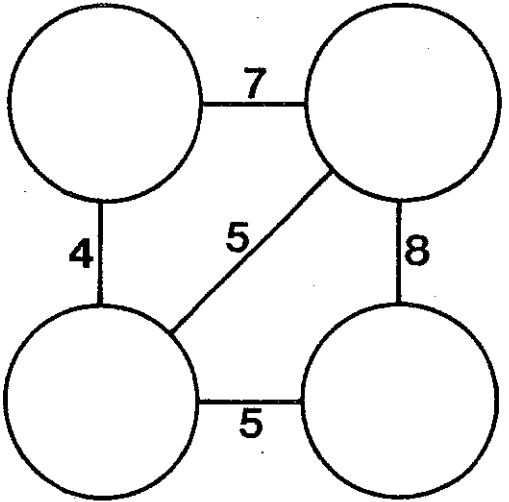
Example:
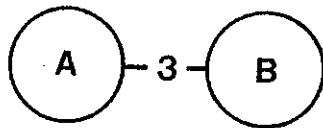
1. Use 7 pebbles.

2. Use 9 pebbles.

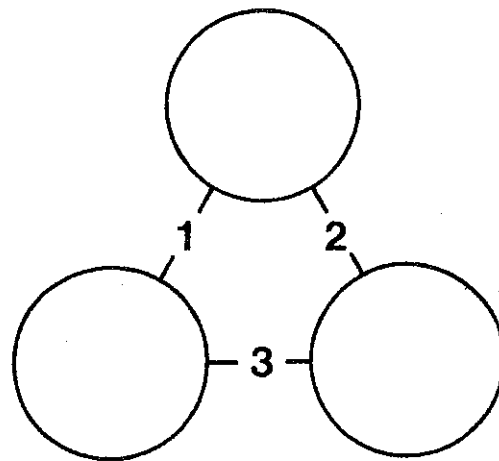3. Use 10 pebbles.

4. Use 10 pebbles.

5. Use 12 pebbles.

Operations 10

each puzzle requires. Put them in the circles so that the difference between the numbers of pebbles in 2 circles equals the number in the line.
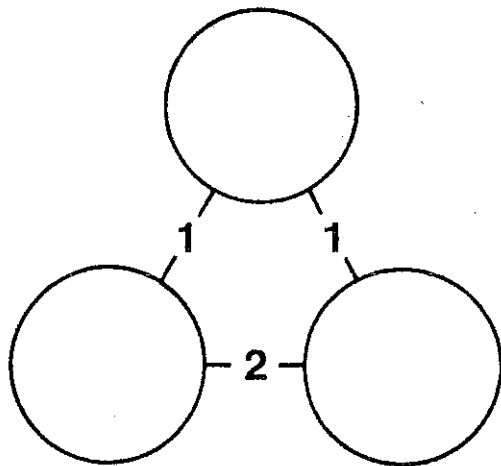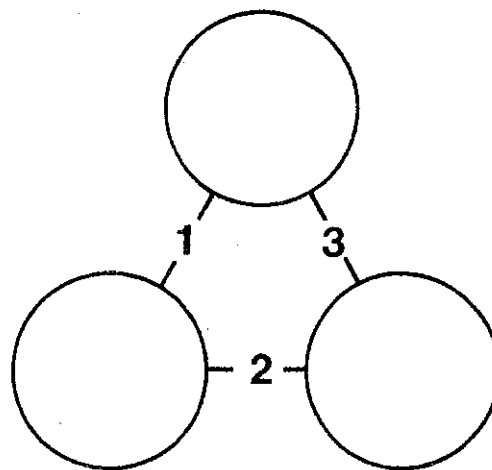
Example:

A — 3 — B

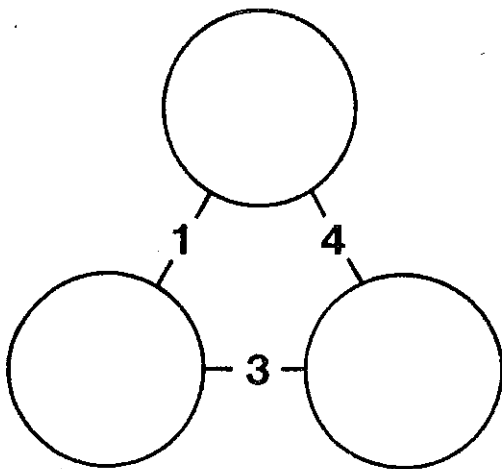There could be 3 pebbles in A and no pebbles in B, or 4 pebbles in B and 1 in A, etc., to make a difference of 3.
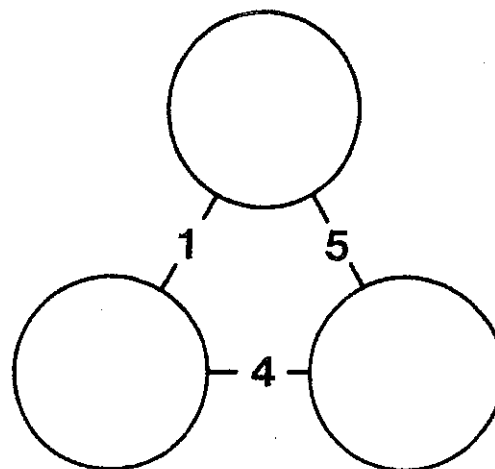
1. Use 7 pebbles.
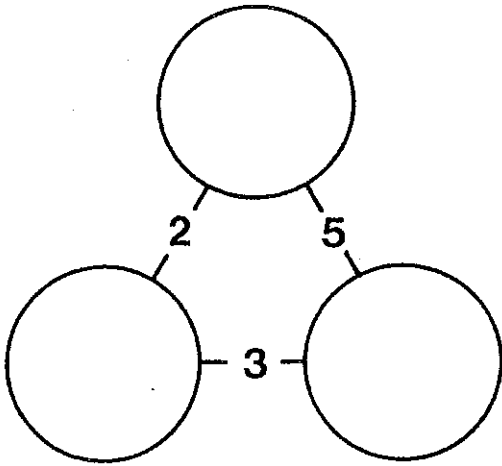
2. Use 6 pebbles.

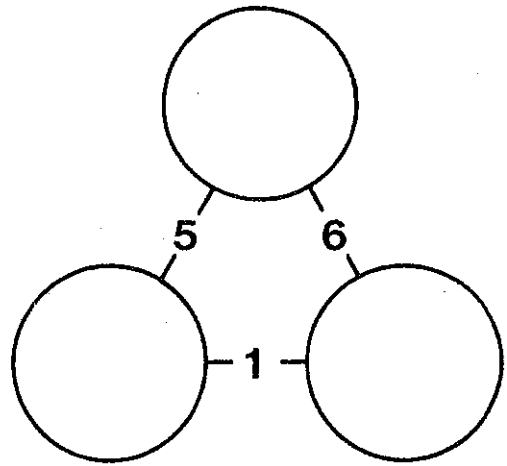3. Use 8 pebbles.

4. Use 8 pebbles.
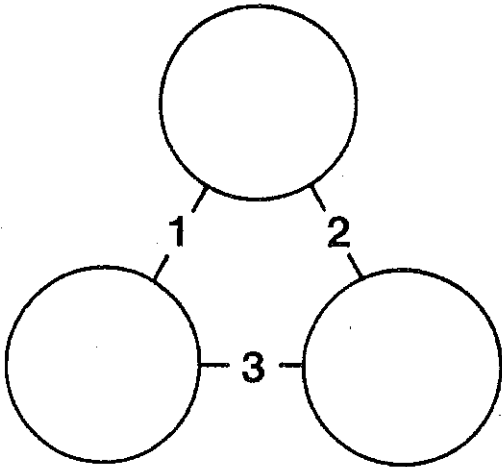
5. Use 9 pebbles.

the difference between the numbers of pebbles in 2 circles equals the number on the line.
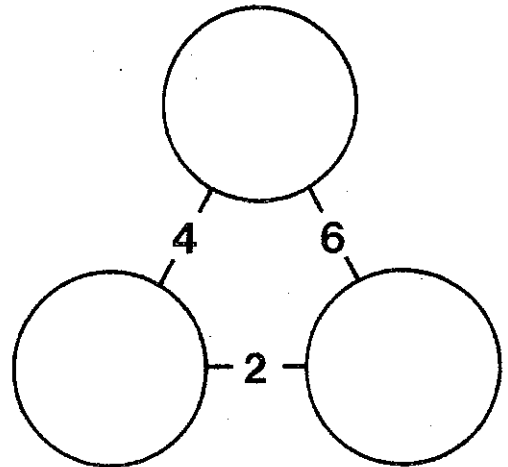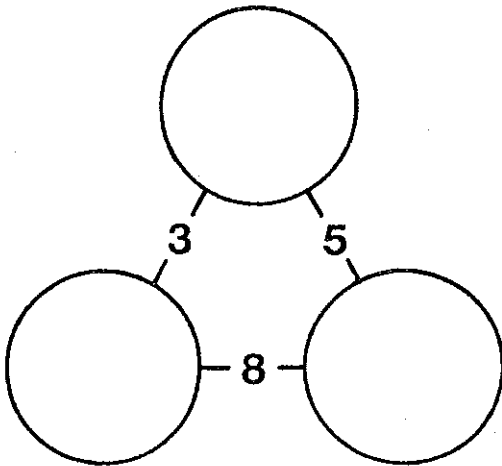

1. Use 10 pebbles.
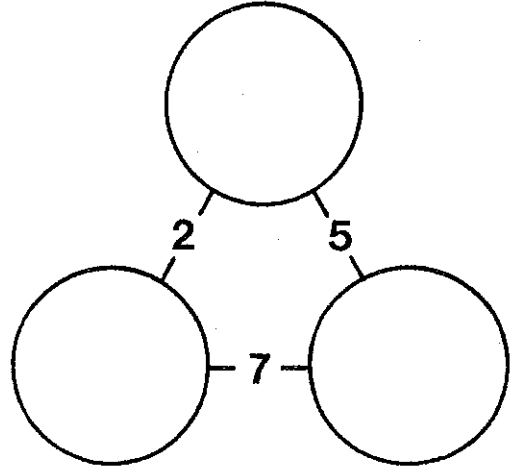

2. Use 10 pebbles.

3. Use 11 pebbles.

4. Use 13 pebbles.

5. Use 14 pebbles.

6. Use 15 pebbles.