**Balance Problems**

**Aims:**

To work out the value of unknown weights on balances

**Activities:**

Example 1: Balances with physical pan balance and espresso cups.

Each cup weighs approx. 100g, can add a small coin to make it so.

Example 2

E

E

Example 3

D

D

D

D

D

Worksheet: balance problems A

If finished, extension available

Further practice (after example of how to use it)

<http://nlvm.usu.edu/en/nav/frames_asid_201_g_4_t_2.html>

Extension

**Examples**

**1**

x

y?

3

x

x?

x?

18?

3?

x?

y?

y?

y?

y

y

**2**

p

p

q

p

q

q

q

q

1

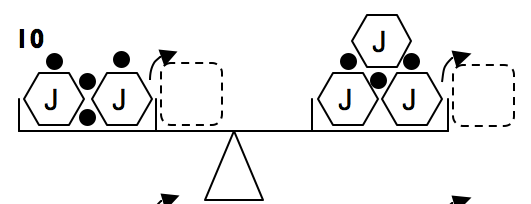
p

5

**Assessment:**

Fill the gaps:

To solve a balance problem, you do the \_\_\_\_\_\_ thing to \_\_\_\_\_ sides.



What would be the best first step to solve this balance problem?

Subtract J from both sides.

Subtract 2 J’s from both sides.

Subtract 2 blobs from both sides.

Add 3 blobs to both sides.

Solve this problem:

AD

AD

A

AD

AD

AD

Extension: create a difficult problem for someone else to solve.