

# Number Sentences

1. Use a two-pan balance and a set of standard masses. The table shows the number and type of masses to put in Pan 1. Decide which masses to put into Pan 2 in order to balance the pans. Complete the true number sentence.

Follow the example.

Masses in Pan 1	Masses in Pan 2	Number Sentence
<b>Ex.</b> One 10-gram Four 5-gram	Three 10-gram	$(1 \times 10) + (4 \times 5) = (3 \times 10)$
<b>A.</b> Four 5-gram Two 10-gram		$(4 \times 5) + (2 \times 10) =$
<b>B.</b> Three 10-gram Three 5-gram Three 1-gram		$(3 \times 10) + (3 \times 5) + (3 \times 1) =$
<b>C.</b> One 20-gram Two 10-gram Three 5-gram Four 1-gram		$(1 \times 20) + (2 \times 10) + (3 \times 5) + (4 \times 1) =$
<b>D.</b> Five 10-gram Five 5-gram Five 1-gram		$(5 \times 10) + (5 \times 5) + (5 \times 1) =$

2. Complete the number sentences. Use a two-pan balance and masses to show that your number sentence is true. If it is not, correct it.

A.  $3 \times 5 = 10 + \square$

B.  $7 \times 5 = 3 \times 10 + \square$

C.  $27 + 34 = 30 + \square$

D.  $46 + 29 = 45 + \square$

E.  $8 \times 5 + \square = 45$

F.  $17 + 36 = 33 + 17 + \square$

3. Explain a way to solve Question 2D without using the balance.

- 4.** Use a two-pan balance and a set of standard masses to measure four small objects. Choose items you have not measured before.
- Predict if each object’s mass is greater than, equal to, or less than 20 grams.
  - Weigh the object and record its actual mass.
  - Write a number sentence comparing the mass of your object to 20 grams.
  - Use these symbols: > greater than    = equal to    < less than
  - Put a star (★) next to your prediction if it was correct.

Follow the example.

Object	Prediction: My object is greater than, equal to, or less than 20 grams	Actual Mass (in grams)	Number Sentence
glue stick	★ Less than 20 grams	6 grams	6 < 20