

Independent Practice

12.5

NAME _____

Module 12 Attributes and Tools
Lesson 5 Measurement: Weight and Mass

1. How many balls balance 16 blocks? 2. How many cans balance four blocks?



Evaluate.

3.
$$\begin{array}{r} 12 \text{ lb } 14 \text{ oz} \\ + 9 \text{ lb } 9 \text{ oz} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 28 \text{ lb } 3 \text{ oz} \\ - 13 \text{ lb } 10 \text{ oz} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 55 \text{ lb} \\ - 17 \text{ lb } 14 \text{ oz} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 34 \text{ kg } 805 \text{ g} \\ + 19 \text{ kg } 773 \text{ g} \\ \hline \end{array}$$

7. A cat weighs 4,900 g. A dog weighs 5.12 kg. Which animal weighs more? How much more?

8. Adrian has three boxes to ship. One box weighs 5 lb 4 oz, one weighs 38 oz, and one weighs 18 lb. What is the total weight of the three boxes?
9. Larry has a 5 lb 10 oz bag of peanuts to divide equally among five people. How much will each person's share of peanuts weigh?
10. A box of macaroni has a mass of 1.5 kg. Lilly used 525 g of macaroni. What is the mass of the remaining macaroni?

Journal

1. How does a balance scale differ from other scales such as a physician's scale or a kitchen scale? How can the specific weight of an object on a balance scale be determined when a balance scale has no readout or numbers on it?
2. Rico stood on a physician's scale and moved the weights to determine that he weighed 130 pounds because the big weight was on 100 and the small weight was on 30. Tell what would happen to the balance if Rico made the following movements:
 - moved the small weight to the right
 - moved the small weight to the left
 - moved the big weight to the right
 - moved the big weight to the left

Explain your answers.

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Cumulative Review

Fill in the blanks.

1. 3.5 mi = _____ ft 2. 154 h = ____ days ____ h
3. 129 in. = _____ ft _____ in. 4. 104 fl oz = ____ qt

Use a ruler for Problems 5 and 6.

5. Find the length of the line segment to the nearest millimeter.



6. Draw a line segment that is $3\frac{7}{8}$ inches long.

Perform the indicated operation.

7.
$$\begin{array}{r} 10 \text{ h } 13 \text{ min} \\ 8 \text{ h } 42 \text{ min} \\ + 5 \text{ h } 37 \text{ min} \\ \hline \end{array}$$
8.
$$\begin{array}{r} 55 \text{ ft } 2 \text{ in.} \\ - 7 \text{ ft } 11 \text{ in.} \\ \hline \end{array}$$
9.
$$\begin{array}{r} 19 \text{ cm } 62 \text{ mm} \\ + 4 \text{ cm } 81 \text{ mm} \\ \hline \end{array}$$
10.
$$\begin{array}{r} 129 \text{ km } 254 \text{ m} \\ - 102 \text{ km } 578 \text{ m} \\ \hline \end{array}$$

11. Donny is making a rectangular picture frame measuring $8\frac{1}{2}$ inches by $4\frac{3}{4}$ inches. He has a strip of wood that is two feet four inches long. Does Donny have enough wood to make the picture frame? Why or why not?

Additional Work Area