\# Correct
Write in feet and inches.

| 1 | 12 in $=$ | ft | in | 23 | 17 in $=$ | ft | in |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | ---: |
| 2 | 13 in $=$ | ft | in | 24 | 24 in $=$ | ft | in |
| 3 | 14 in $=$ | ft | in | 25 | 28 in $=$ | ft | in |
| 4 | 15 in $=$ | ft | in | 26 | 36 in $=$ | ft | in |
| 5 | 22 in $=$ | ft | in | 27 | 45 in $=$ | ft | in |
| 6 | 20 in $=$ | ft | in | 28 | 48 in $=$ | ft | in |
| 7 | 24 in $=$ | ft | in | 29 | 59 in $=$ | ft | in |
| 8 | 25 in $=$ | ft | in | 30 | 60 in $=$ | ft | in |
| 9 | 26 in $=$ | ft | in | 31 | 64 in $=$ | ft | in |
| 10 | 30 in $=$ | ft | in | 32 | 68 in $=$ | ft | in |
| 11 | 34 in $=$ | ft | in | 33 | 71 in $=$ | ft | in |
| 12 | 35 in $=$ | ft | in | 34 | 73 in $=$ | ft | in |
| 13 | 36 in $=$ | ft | in | 35 | 72 in $=$ | ft | in |
| 14 | 37 in $=$ | ft | in | 36 | 80 in $=$ | ft | in |
| 15 | 46 in $=$ | ft | in | 37 | 84 in $=$ | ft | in |
| 16 | 40 in $=$ | ft | in | 38 | 90 in $=$ | ft | in |
| 17 | 48 in $=$ | ft | in | 39 | 96 in $=$ | ft | in |
| 18 | 58 in $=$ | ft | in | 40 | 100 in $=$ | ft | in |
| 19 | 49 in $=$ | ft | in | 41 | 108 in $=$ | ft | in |
| 20 | 47 in $=$ | ft | in | 42 | 117 in $=$ | ft | in |
| 21 | 50 in $=$ | ft | in | 43 | 104 in $=$ | ft | in |
| 22 | 12 in $=$ | ft | in | 44 | 93 in $=$ | ft | in |
|  |  |  | in |  |  |  |  |
| 10 |  |  |  |  |  |  |  |

© Bill Davidson

| B |  |  | Improvement |  |  | \# Correct |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 120 in = | ft | in | 23 | 16 in = | ft | in |
| 2 | 12 in = | ft | in | 24 | 24 in = | ft | in |
| 3 | 13 in = | ft | in | 25 | 29 in = | ft | in |
| 4 | 14 in = | ft | in | 26 | 36 in = | ft | in |
| 5 | 20 in = | ft | in | 27 | 42 in = | ft | in |
| 6 | 22 in = | ft | in | 28 | 48 in $=$ | ft | in |
| 7 | 24 in = | ft | in | 29 | 59 in = | ft | in |
| 8 | 25 in = | ft | in | 30 | 60 in = | ft | in |
| 9 | 26 in = | ft | in | 31 | 63 in = | ft | in |
| 10 | $34 \mathrm{in}=$ | ft | in | 32 | 67 in = | ft | in |
| 11 | $30 \mathrm{in}=$ | ft | in | 33 | 70 in = | ft | in |
| 12 | 35 in = | ft | in | 34 | 73 in $=$ | ft | in |
| 13 | $36 \mathrm{in}=$ | ft | in | 35 | 72 in = | ft | in |
| 14 | 46 in $=$ | ft | in | 36 | 77 in = | ft | in |
| 15 | 37 in = | ft | in | 37 | 84 in = | ft | in |
| 16 | 40 in = | ft | in | 38 | 89 in = | ft | in |
| 17 | 48 in $=$ | ft | in | 39 | 96 in = | $f t$ | in |
| 18 | 49 in = | ft | in | 40 | 99 in = | $f t$ | in |
| 19 | 58 in $=$ | ft | in | 41 | 108 in = | ft | in |
| 20 | 47 in = | ft | in | 42 | 115 in = | ft | in |
| 21 | 50 in = | ft | in | 43 | 103 in = | ft | in |
| 22 | 12 in = | ft | in | 44 | 95 in = | ft | in |

(C) Bill Davidson

Name
Date $\qquad$

Solve.

1. Liza's cat had six kittens! When Liza and her brother weigh all the kittens together, they weigh 4 pounds 2 ounces. Since all the kittens are about the same size, how many ounces does each kitten weigh?
2. Holly is buying orange juice for the class party. There are 24 people coming, and she figures each person will drink 1.75 cups.
a. How many fluid ounces of juice will she need?
b. If she buys five 59-ounce containers, will she have enough juice?
3. Josie is 1.4 m tall. Her sister is 54 cm shorter.
a. Find Josie's sister's height in meters.
b. How tall are Josie and her sister combined, in meters?
4. A crane operator unloaded the following cargo:

- 5 pallets of lumber. Each pallet weighs 7.3 tons.
- 9 pallets of concrete. Each pallet weighs 4.8 tons.
a. How many pounds of cargo were unloaded?
b. Which load of cargo was heavier, the lumber or the concrete? How many pounds heavier?

5. A punch recipe calls for 2 quarts of ginger ale, 3 pints of orange juice, 2 pints of pineapple juice, 1 cup of lemon juice, and 3 ounces of lime juice. Edna plans to make a double-recipe. How many fluid ounces will there be in a double-recipe of punch?
6. Use the table below to answer the questions that follow.

| TOWN OF WAPPINGERS FALLS <br> Distances from Akun's House |  |
| :---: | :---: |
| Location | Distance |
| Cibo Deli | 2.5 miles |
| W.F. Library | 15,840 feet |
| Elementary School | 5,280 yards |
| Youth Ball Field | 1 mile 880 yards |

a. If Akun travels from his house to the Youth Ball Field and back, how many miles did he travel?
b. Which two locations are equidistant from Akun's house?
c. Three days a week, Akun walks to school. After school, the bus drops him off at the library to do his homework. He walks home afterwards. How far, in feet, does Akun walk on those three days?

Name
Date $\qquad$
Solve.

1. While training for an Ironman competition, Johnson swam 0.86 km , biked for 22.4 km , and ran 4.25 km .
a. Johnson completed this routine twice a week. How far did Johnson travel in one week while training, in meters?
b. The following week Johnson decided to work harder. He still trained twice a week, but he doubled the length of his swim and his biking and tripled the amount he ran. How much further did he travel this week than he did in the first week, in meters?

Name $\qquad$ Date $\qquad$
Solve.

1. Jocelyn borrowed 3.75 kg of flour from her grandmother to bake 3 batches of cookies and 2 cakes. Each cookie recipe called for 225 grams of flour. Each cake recipe needed 1.2 kg of flour. After baking, how much flour was Jocelyn able to return to her grandmother?
2. The new athletic facility on the downtown campus measures 0.74 km by 0.4 km . How many square meters is the facility?
3. It is recommended that athletes drink a minimum of 0.24 L of water for every 20 minutes of athletic activity. John plays tennis for 3 hours. His water bottle holds $1,500 \mathrm{~mL}$. Will he have enough water to meet the minimum requirement? If so, how much water will he have left? If not, what is the least amount of water he will need to put in his bottle when it is empty? Express your answer in liters.
4. A Rottweiler gave birth to 3 puppies. The first puppy weighed 5.1 kg . The second weighed 206 g less than the first. The third puppy weighed 0.2 kg more than the second.
a. What is the total weight of the litter in grams?
b. How much more did the heaviest puppy weight than the lightest one?
c. The mother weighed 4 times the total weight of her litter. What was her weight in kilograms?
5. A courier charges $\$ 6.25$ to ship a 2 lb -package. For each ounce over 2 lb , they charge an additional $\$ 0.35$ per ounce.
a. How much would it cost to ship a package weighing 4 lb 6 oz ?
b. Which would be less expensive? Sending two packages weighing 2 lb 4 oz each, or combining them into one package weighing 4 lb 8 oz ? What is the difference in price?
