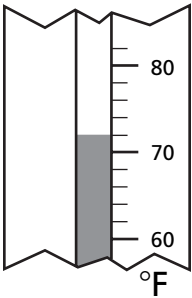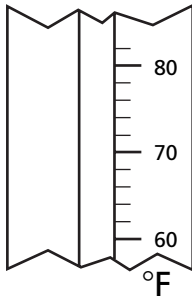# Measuring Temperature

Fill in the missing temperature. Shade the thermometer to match.

1
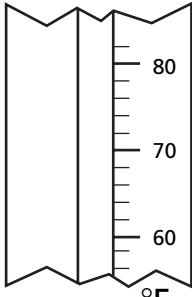
80
70
60
°F

[ ] °F

10°F cooler →

2

80
70
60
°F

[ ] °F

6°F warmer ↘

4

80
70
60
°F

[ ] °F

← 12°F warmer

3

80
70
60
°F

[ ] °F

22°F cooler ↙

5

80
70
60
°F

[ ] °F

[ ] °F warmer →

6

80
70
60
°F
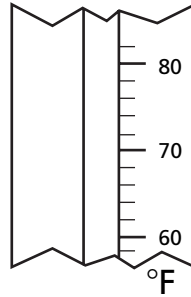
[72] °F

Measuring Time

Fill in the missing numbers, times, and clock hands.

1

4:45

30 minutes
earlier

:

45 minutes
earlier

:

15 minutes
earlier

:

:

30 minutes
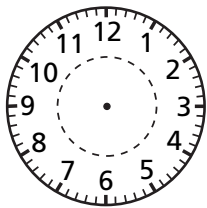earlier

:

2

:

30 minutes
later

:

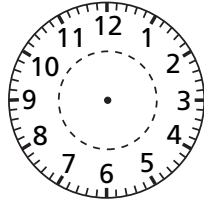minutes
later

:

45 minutes
later

:

:

:

minutes
later

Comparing Times

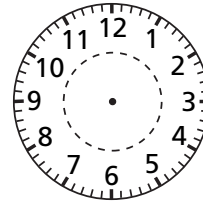**Fill in the missing times, clock hands, words, and numbers.**
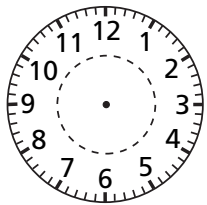
1 hr 45 min later

1 hr 15 min later

:

:

7:45

0 hr 30 min later
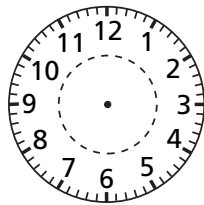
2 hr 30 min later

:

:

0 hr 15 min later

_____ hr

_____ min
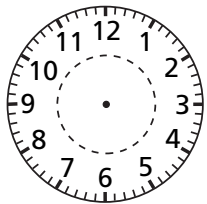
11:00

:
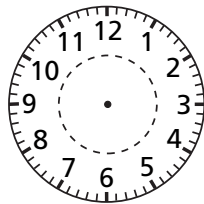
1 hr 0 min later

:
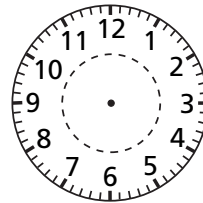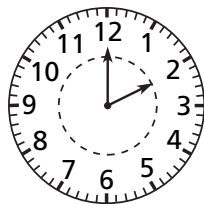
0 hr 45 min later

:

Weight in Ounces, Pounds, and Tons

1 A tennis ball weighs 2 oz.
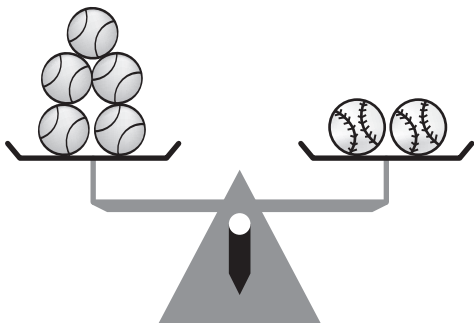
How much does a baseball weigh?

_____

2
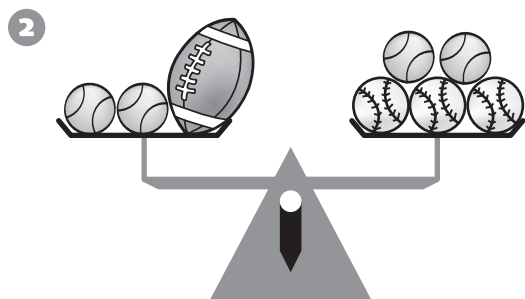
How much does a football weigh?

_____

3
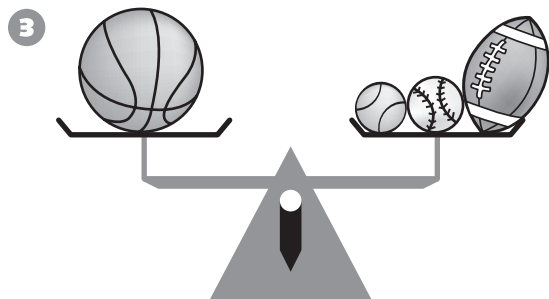
How much does a basketball weigh?

_____

4 How many tennis balls would it take to balance a basketball?

_____

5 The maximum weight for a bowling ball is 4 tennis balls less than 12 basketballs. What is the maximum weight for a bowling ball?

_____

Weighing to Solve Problems

All bags with the same label have the same weight. 🙂 **weighs 2 lb, 13 oz.**

1

A weighs _____ lb, _____ oz.

2

B weighs _____ lb, _____ oz.

3

C weighs _____ lb, _____ oz.

4

D weighs _____ lb, _____ oz.

5

E weighs _____ lb, _____ oz.

6
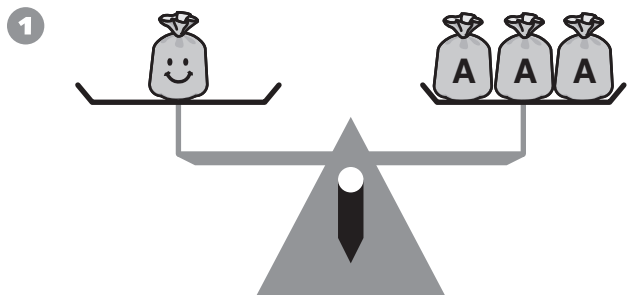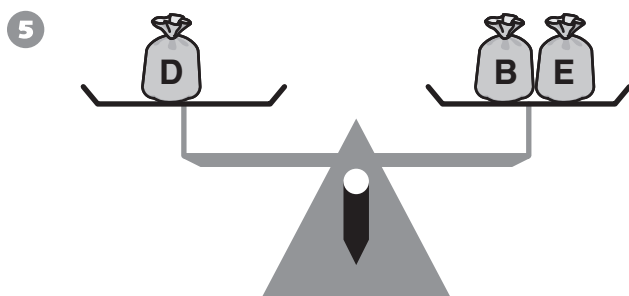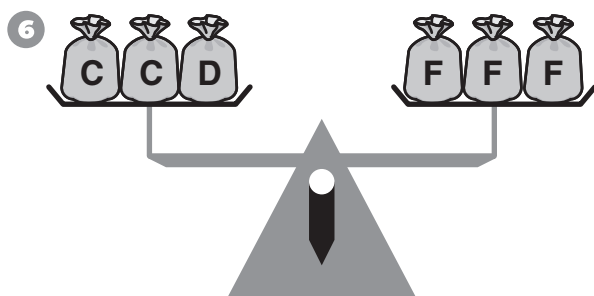
F weighs _____ lb, _____ oz.

Measuring Capacity

If you only have a 5-gallon jug and a 3-gallon jug, how could you use them to measure exactly 4 gallons?

1 First, fill the _____-**gallon** jug. Then pour from that

jug to fill the _____-**gallon** jug to the top.

2 There are _____ **gallons** left in the _____-**gallon**

jug, and the _____-**gallon** jug is full.

3 Empty the full jug. Then pour the _____ **gallons**
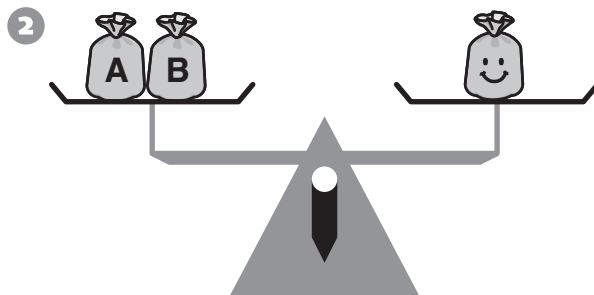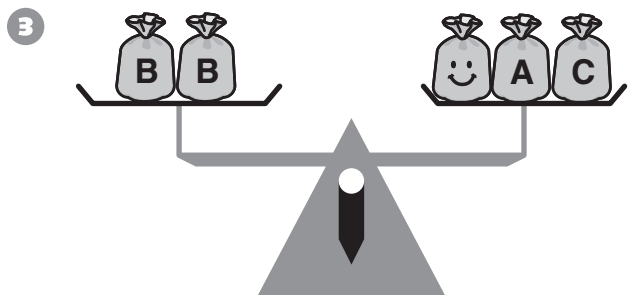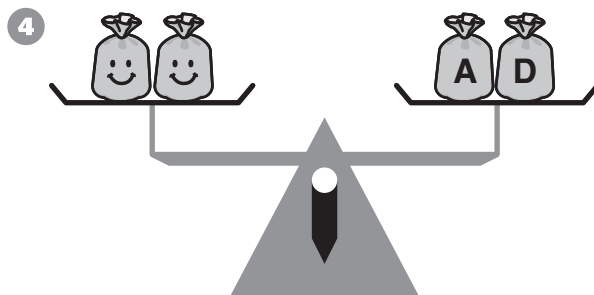
from the _____-**gallon** jug into the _____-**gallon** jug.

4 Fill the _____-**gallon** jug to the top.

5 Pour enough from the _____-**gallon** jug to fill

the _____-**gallon** jug the rest of the way.

6 To do that you will pour _____ **gallon** out and

have _____ **gallons** left.

7 There are **4 gallons** in the _____-**gallon** jug.

Weight and Capacity

Suppose you have exactly 1 cup of each of these items.

water   cooking oil   sand   feathers   crackers

You want to put the cups in order from lightest to heaviest. You have only a pan balance. You can compare two cups at a time.
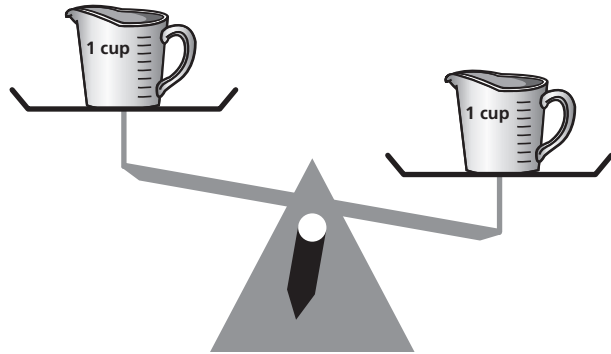
Suppose you start with the cooking oil and the water. It would look something like this.

The water is heavier. So, you put that cup aside as you continue to find the lightest cup.

---

1 Next, you compare the cooking oil with another cup. You put the heavier cup aside. You keep doing that until you find the lightest. Which cup do you think will be the lightest? _____

---

2 Putting aside the lightest, you now have four cups left to order. You compare all of them using the balance. How many comparisons will you need to make? _____

Which cup do you think will be the lightest this time? _____

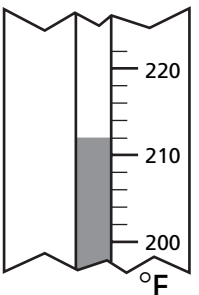
3 Now you have three cups left. How many comparisons will you make with three cups? _____
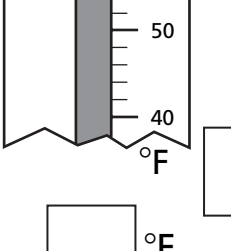
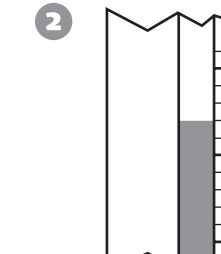Which cup do you think will be the lightest this time? _____

---

4 Finally, you can find the heaviest cup of all by doing one more comparison. Which cup do you think it will be? _____
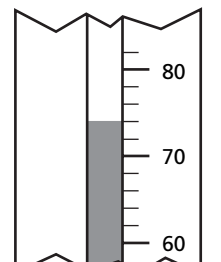
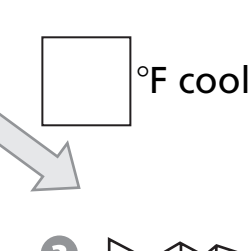# Analyzing Temperature Data

Fill in the missing numbers and shading.

1

— 220

— 210

— 200

°F

[ ] °F

the boiling
point of water

[ ] °F cooler →

2

— 140

— 130

— 120

°F

[ ] °F

[ ] °F cooler ↘

5

— 60

— 50

— 40

°F

[ ] °F cooler

[ ] °F

4

— 80

— 70

— 60

°F

[ ] °F cooler

[ ] °F

3

— 110

— 100

— 90

°F
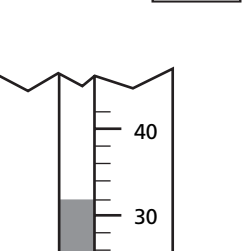
[ ] °F cooler

[ ] °F

← ←

[ ] °F
cooler ↘

6

— 50

— 40

— 30

°F

[ ] °F

6°F cooler →

7

— 40

— 30

— 20

°F

[ ] °F

the freezing
point of water