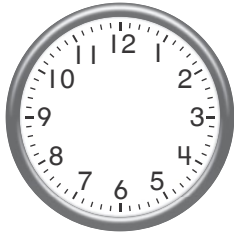


Name _____

1. Draw hands on the clock to show 4:33.
What time will it be in 1 hour and 14 minutes?



2. Joseph and Ernie walked the same distance to baseball practice. Their start and end times were different. Who walked faster and by how many minutes?

Joseph



Start



End

Ernie



Start



End

- (A) Ernie; 5 minutes faster than Joseph
- (B) Joseph; 5 minutes faster than Ernie
- (C) Joseph; 15 minutes faster than Ernie
- (D) They finished in the same amount of time.

3. Two pet stores in a small town sell bags of dog food. At Store A, each bag weighs 3 kilograms. At Store B, each bag weighs 6 kilograms. If you buy 5 bags at each store, how many more kilograms of dog food will you buy from Store B?

4. Name the metric unit that could be used to measure the capacity of a pitcher of lemonade. Then, using that unit, write a reasonable estimate for the capacity of a pitcher of lemonade.

5. **A.** Sydney is looking for a tool to measure the mass of a pineapple. Which tool should she use?

- (A) Yardstick
- (B) 1-liter container
- (C) Pan balance
- (D) Clock

- B.** Using the tool identified in **Part A**, what unit will Sydney use to measure the mass of the pineapple?

- (A) Hours
- (B) Grams
- (C) Yards
- (D) Liters

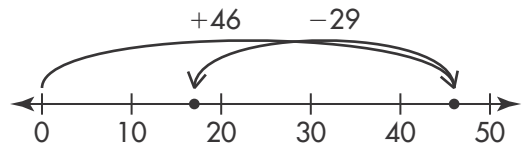
6. Mrs. Brooks leaves for work each day at 8:00 A.M. To get ready for work, Mrs. Brooks needs 10 minutes to shower, 15 minutes to eat breakfast, and 20 minutes to get dressed. What time does Mrs. Brooks need to begin getting ready for work?

A. Describe the quantities you know.

B. Solve the problem. Explain your reasoning. You can use a picture to help.

7. Jaxson has 4 full bottles of milk. Each bottle holds 2 liters. His friend Martin has 5 bottles of milk, each of which holds 1 liter. How much more milk does Jaxson have than Martin?

8. Maria rode her bike for 46 minutes on Saturday and 29 minutes on Sunday. Write and solve an equation to find how many more minutes Maria rode her bike on Saturday.



9. Mrs. Abita writes a recipe saying that it requires 200 liters of milk. Is this reasonable? Explain.

10. Lizi measured the mass of a large box using grams. Ahmad measured the same box using kilograms. How did the measurements compare? Select all the sentences that are true.

- There were an equal number of grams and kilograms.
- There were fewer kilograms than grams.
- There were more kilograms than grams.
- There were fewer grams than kilograms.
- There were more grams than kilograms.

11. Danielle said the mass of her water bottle is about 800 liters. Adam said it is 800 grams. Who is correct? Select the best answer.

- (A) Danielle is correct because liters are metric units.
- (B) Adam is correct because grams are units of mass and liters are units of capacity.
- (C) They are both correct because grams and liters are units of capacity.
- (D) Neither is correct because their estimates are not reasonable.

12. Explain why it would be better to use kilograms rather than grams to measure the mass of a desk.

13. Rudy participated in a class exercise challenge. It took Rudy 38 minutes to walk the first part of the challenge. He walked the rest of the challenge in 29 minutes. Write and solve an equation to find how much time Rudy took to complete the challenge.

14. Logan, Scott, Hank, and Remy are swimming laps in a pool. Logan and Hank start swimming at 4:04 P.M. and swim for 12 minutes each. Scott and Remy start swimming when Logan and Hank finish, and they swim until 4:23 P.M. How many minutes did the 4 swim in total?

15. Marilyn used a pan balance to find the mass of her bowling ball. She said it was 6 kilograms. Is her answer reasonable? Explain.

16. Look at the time on the clock below.



- A. Select all the ways to write this time.

- 12:42
 18 minutes before 12 o'clock
 18 minutes before 1 o'clock
 42 minutes after 12 o'clock
 1:18

- B. What time was it 4 hours, 15 minutes ago?

17. Mrs. Lopez left for work at 6:35 A.M. She arrived at work 40 minutes later.

- A. What time did she arrive at work?

- B. The next day, she left for work at the same time and arrived at 7:42 A.M., how much longer was her commute on the second day?

18. Tyler used 18 kilograms of potting soil to fill flower boxes. He had already used 23 kilograms of potting soil to fill the flower pots. Write and solve an equation to find how many kilograms of potting soil Tyler used in all.

19. A container was filled with 1,000 liters of water. After some of the water was pumped out, there was 200 liters of water in the container. Write and solve an equation to find how many liters of water were pumped out.