

Module 2 Confirmation Test Review

1. Kerri has decided she would like to buy a new MP3 player for \$149.99, but she doesn't keep her checkbook up-to-date very well, so she is not sure if she can afford to spend the money. The most recent balance she is showing in her checkbook is \$125.86. Since then, she has written checks for \$235, \$24.56, \$31.67, and \$65.80. She only made one deposit of \$350.00.
 - a. How much is remaining in her checking account?
 - b. Does she have enough to buy the player?
 - c. If she went ahead and bought the player with 9.25% tax added, what will her balance be after the purchase?
2. Of the 24 auditions that Wanda attended, she was awarded 3 parts.
 - a. Write the ratio of the number of parts she was awarded to the number of auditions she attended in simplest form.
 - b. What is the ratio of the number of parts she did not get to the total number of auditions she attended?
3. Suppose you are training to run a half marathon, approximately 13 miles. You have been working toward this goal for about three months and are able to run 5 miles in 40 minutes. If you continue at this pace for the remainder of your training, how long should it take you to run the half marathon?
4. A school reported that 141 students were absent due to illness. The school has an enrollment of 940 students. What percentage of students were home sick?
5. In laboratory testing, a company claimed that its cleaning product was 95% effective at treating stains. On its website, the company listed 19 success stories in laboratory testing. How many stains did the company treat during the lab testing?

6. Write $\frac{14}{35}$ as a percent.

7. Write 0.582 in simplified fraction form.

8. A rectangular flower bed measures 12.3 meters by 6.7 meters. What is the area of the bed? (round to the nearest tenth of a meter)

9. The amount of rainfall in inches for each month in Knoxville in the year 2004 is listed:

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
2.74	3.63	4.61	2.73	5.35	7.90	7.62	2.18	4.79	3.10	6.01	5.56

- Find the mean monthly rainfall for the year:
- Find the median monthly rainfall for the year:
- Find the mode of the data:
- Find the range of the data:

10. A telephone pole is 40 feet tall and casts a shadow 9 feet long. A standard stop sign casts a shadow that is 1.8 feet long. How tall is the stop sign?

1. a) \$118.83 b) no c) -\$45.03
2. a) $\frac{1}{8}$ b) $\frac{7}{8}$
3. 104 minutes (1 hour 44 minutes)
4. 15%
5. 20 stains
6. 40%
7. $\frac{291}{500}$
8. 82.4 square meters
9. a) 4.685 inches b) 4.7 inches c) no mode d) 5.72 inches
10. 8 feet