

Unit 5 MID-Test Study Guide
Calculators should not be used.

1. One way to find out $\frac{3}{4}$ of 73.5 is to multiply 73.5 by $\frac{3}{4}$. What is $\frac{3}{4}$ of 73.5?

$$\begin{array}{r} 73.5 \\ \times 75 \\ \hline 3675 \\ + 61450 \\ \hline 55125 \end{array}$$

55.126

2. Jada received a \$20 iTunes gift card for her birthday. She downloaded 6 songs which each cost \$0.97 and 1 app which costs \$2.64. How much money is left on Jada's gift card?

$$\begin{array}{r} 97 \\ \times 6 \\ \hline 582 \end{array}$$

$$\begin{array}{r} 5.82 \\ + 2.64 \\ \hline 8.46 \end{array}$$

3. Four rocks have the following weights: 4.29 grams, 4.71 grams, 3.55 grams, 5.48 grams. Diego uses estimation to determine the approximate weight of all the rocks. What should his estimation be?

Varies
 $4 + 5 + 4 + 4 = 17$ grams

$$\begin{array}{r} 20.00 \\ - 8.46 \\ \hline 11.54 \end{array}$$

\$11.54 left

Sport	2011 Percent of Injuries in the U.S.	2012 Percent of Injuries in the U.S.
Basketball	25.9	27.3
Football	21.3	19.4
Baseball/softball	4.1	2.2
Soccer	4.6	5.1
Bicycling	8.1	8

Use the table to answer #18-20.

4. How much more percent of injuries occurred in 2011 than 2012 in football? 1.9%
5. What is the total percent of injuries that occurred in 2011 and 2012 in bicycling? 16.1%
6. Which sport had 2.9 percent more injuries in 2012 than baseball/softball? Soccer

④

$$\begin{array}{r} 21.3 \\ - 19.4 \\ \hline 1.9 \end{array}$$

⑤

$$\begin{array}{r} 8.1 \\ + 8.0 \\ \hline 16.1 \end{array}$$

⑥

$$\begin{array}{r} 2.2 \\ + 2.9 \\ \hline 5.1 \end{array}$$

7. Mrs. Jewett is taking her 60 students on a field trip to the bowling alley. The cost for each student is as follows:

- \$5.00 for transportation.
- \$2.00 per game. (Each student will play 3 games.)
- \$2.50 to rent bowling shoes.
- \$7.50 for lunch.

What is the total amount of money that will be collected from each student? What is the total for the 60 students?

$$\begin{array}{r}
 5.00 \\
 2.00 \\
 2.50 \\
 + 7.50 \\
 \hline
 21.00
 \end{array}
 \qquad
 \begin{array}{r}
 21 \\
 \times 60 \\
 \hline
 00 \\
 + 1260 \\
 \hline
 1260
 \end{array}$$

\$21 per student;

\$1260 total

8. Priya wants to buy a MP3 player. It will cost her \$199.95. She already has \$56.52 in her piggy bank and her grandmother gave her \$60.00. How much more money does Priya have to save in order to have enough to buy the MP3 player?

$$\begin{array}{r}
 56.52 \\
 + 60.00 \\
 \hline
 116.52
 \end{array}
 \qquad
 \begin{array}{r}
 199.95 \\
 - 116.52 \\
 \hline
 83.43
 \end{array}$$

\$83.43 needed

9. Sara's weekly paycheck is \$125.52. If Kim got paid 3.2 times more how much did Kim get paid?

$$\begin{array}{r}
 125.52 \\
 \times 3.2 \\
 \hline
 25104 \\
 + 376560 \\
 \hline
 401664
 \end{array}$$

\$401.66

10. Noah has 4 bottles of water. 1 bottle has 0.456 liters of water. Bottle 2 has 0.95 liters of water. Bottle 3 has 0.5 liters of water and bottle 4 has 0.3478 liters of water. His goal is to drink 2.5 liters of water a day, will he reach his goal? If yes, how much did he go over, if no, how much more does he still need?

$$\begin{array}{r}
 0.4560 \\
 0.9500 \\
 0.5000 \\
 + 0.3478 \\
 \hline
 2.2538
 \end{array}$$

$$\begin{array}{r}
 2.5000 \\
 - 2.2538 \\
 \hline
 0.2462
 \end{array}$$

No, he still needs
0.2462 L.