# BRONX COMMUNITY COLLEGE 

 of the City University of New York DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCEMATH 01
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Quiz 1
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1. $\sqrt{25}=5$
2. $\sqrt{49}=7$
3. $\sqrt{8^{2}+6^{2}}=10$
4. $(\sqrt{31})^{2}=31$
5. $\sqrt{2} \times(3 \sqrt{2})=6$
6. $\frac{5}{\sqrt{5}}=\sqrt{5}$
7. $\frac{10.4-3.1 \times 3.2}{1.92}=0.25$
8. Convert $2 \frac{1}{4}$ into a decimal.

Answer. $2 \frac{1}{4}=1.25$
9. Convert $\frac{35}{61}$ into a decimal. Round your answer to the nearest thousandth.

Answer. $\frac{35}{61} \approx 0.574$
10. Find the average of the following five numbers: $75.3,81.4,86,78.8,74.5$.

Answer. To compute the average we first compute the sum of the five numbers:

$$
75.3+,+81.4+,+86+,+78.8+,+74.5=396.0
$$

and then we divide by five:

$$
\frac{396}{5}=79.2
$$

11. Each week John saves $\$ 12.5$ in order to buy a bike that costs $\$ 200$. How many weeks will it take him to buy the bike?

Answer. We divide: $\frac{200}{12.5}=16$. So it will take John 16 weeks to buy the bike.
12. A taxi charges $\$ 3.50$ and $\$ 0.55$ for each additional mile. How much will a 12 mile ride cost? Answer. The ride will cost $3.50+12 \times 0.55=10.1$ dollars.
13. Gas costs $\$ 2.15$ a gallon. How much 13 gallons cost?

Answer. It will cost $2.15 \times 13=27.95$ dollars.
14. Write the following decimals in order, from smallest to largest: $1.0003, .04, .1,1.506, .13$. Answer. .04, .1, .13, 1.0003, 1.506

