## GMAT Fractions Practice Test 7

1. What is the units digit of $\left(\frac{6^{6}}{6^{5}}\right)^{6}$ ?
2. Which of the following decimals can be expressed as a fraction or ratio of integers?
(Choose all that apply.)
(A) $\pi$
(B) $0 . \overline{146}$
(C) 1.3984375
(D) $\sqrt{2}$
3. What is the length of the sequence of different digits in the decimal equivalent of $\frac{3}{7}$ ?
4. Which of the following fractions will terminate when expressed as a decimal? (Choose all that apply.)
(A) $\frac{1}{256}$
(B) $\frac{27}{100}$
(C) $\frac{100}{27}$
(D) $\frac{231}{660}$
(E) $\frac{7}{105}$
5. 



In the multiplication above, each symbol represents a different unknown digit, and $\bullet \times \square \times=36$. What is the three digit integer $\bullet$ ?
(A) 263
(B) 236
(C) 194
(D) 491
(E) 452

Determine whether problems \#6-10 are TRUE or FALSE.
6. $\left(\frac{-3}{4}\right)^{2}>-\frac{3}{4}$
7. $\left(\frac{-3}{4}\right)^{3}>-\frac{3}{4}$
8. $\left(\frac{-4}{3}\right)^{3}>-\frac{4}{3}$
9. $\left(\frac{x+1}{x}\right)^{-2}>\frac{x+1}{x}$, where $x$ is a positive integer.
10. $\sqrt[4]{\left(\frac{3}{4}\right)^{3}}>\frac{3}{4}$
11. A professional gambler has won $40 \%$ of his 25 poker games for the week so far. If, all of a sudden, his luck changes and he begins winning $80 \%$ of the time, how many more games must he play to end up winning $60 \%$ of all his games for the week?
12. A feed store sells two varieties of birdseed: Brand $A$, which is $40 \%$ millet and $60 \%$ sunflower, and Brand B, which is $65 \%$ millet and $35 \%$ safflower. If a customer purchases a mix of the two types of birdseed that is $50 \%$ millet, what percent of the mix is Brand A?
13. A grocery store sells two varieties of jellybean jars, and each type of jellybean jar contains only red and yellow jellybeans. If Jar B contains $20 \%$ more red jellybeans than Jar A, but $10 \%$ fewer yellow jellybeans, and Jar A contains twice as many red jellybeans as yellow jellybeans, by what percent is the number of jellybeans in Jar B larger than the number of jellybeans in Jar A?
14. Last year, all registered voters in Kumannia voted either for the Revolutionary Party or for the Status Quo Party. This year, the number of Revolutionary voters increased $10 \%$, while the number of Status Quo voters increased $5 \%$. No other votes were cast. If the number of total voters increased $8 \%$, what fraction of voters voted Revolutionary this year?
15. Express the following as fractions: $0.15 \% \quad 9.6 \%$
16. Express the following as decimals: $2,000 \% \quad 0.030 \%$
17. Express the following as percents: $36.1456 \quad 1$
18. Order from least to greatest: $\quad \frac{3}{5} \quad \frac{0.00751}{0.01} \quad \frac{200}{3} \times 10^{-2}$
19. A credit card changed its rebate program from $\$ 2.50$ rebated for every $\$ 500$ spent to $\$ 3$ rebated for every $\$ 800$ spent. By what percent did the ratio of rebate to spending decline?

For problems \#20-23, express yout answer in terms of the variables given ( $X, Y$, and possibly $Z$ ).
20. What number is $X \%$ greater than $Y$ ?

