Excellence

1. A student says $0.35 = 35\% = \frac{35}{100}$. Are they correct? Explain.

2. A student says $\frac{7}{20} = \frac{3}{8} = 0.38 = 38\%$. Are they correct? Explain.

3. Convert 87.5% to a fraction in simplest form.

4. Convert $\frac{13}{20}$ to a decimal and a percentage.

5. Convert 0.625 to a fraction in simplest form and a percentage.

6. Which is greater: 65% or $\frac{2}{3}$? Show enough working to justify.

7. Which is smaller: 0.48 or $\frac{1}{2}$? Explain.

8. Fill in the blank: $\frac{\square}{8} = 0.625 = 62.5\%$

9. Fill in the blank: $45\% = 0.45$

10. Fill in the blank: $0.2 = 20\% = \frac{\square}{\square}$ in simplest form.

11. Put in descending order: $\frac{7}{10},\ 68\%,\ 0.72$.

12. Put in ascending order: $12.5\%,\ \frac{1}{5},\ 0.18$.

13. Which does not belong: $0.4,\ 40\%,\ \frac{4}{10},\ \frac{1}{5}$?

14. Complete: a number equivalent to $\frac{3}{5}$ is _____ as a percentage.

15. Complete: a decimal equivalent to 125% is _____.

16. A test score was 18 out of 24. Write this as a fraction in simplest form, a decimal, and a percentage.

17. A bottle is 0.75 full. Write this as a fraction and a percentage.

18. Explain why $\frac{1}{3}$ cannot be written as a terminating decimal even though it can be written as a percentage.