

Cumulative Review C

Mixed and Application Review

Name: _____ Grade: _____ Date: _____

Work from memory first. Mark any item you were unsure about, even if the final answer is correct. Show enough work for the teacher to see the method and identify the smallest skill that may need recalculation.

1. A student says 0.7 is less than 0.65 because $65 > 7$. Explain the mistake.

2. A teacher has 36 pencils and 48 erasers. Make identical bags with no leftovers. Greatest number of bags?

3. Two bells ring every 8 and 12 minutes. When will they ring together again?

4. A student says $\frac{1}{8}$ is greater than $\frac{1}{4}$ because $8 > 4$. Explain.

5. Which recipe uses more milk: $\frac{3}{4}$ cup or $\frac{2}{3}$ cup?

6. A runner finishes in 12.48 s. Another in 12.5 s. Who is faster?

7. A student calculates $4.8 \times 6.2 = 297.6$. Explain and correct.

8. The temperature is -9°C and rises 14°C . New temperature?

9. A bank balance is $-\$42$ and a $\$30$ deposit is made. New balance?

10. A student says $-8 + (-3) = 11$ because two negatives make a positive. Explain.

11. A student says $-0.8 > -0.3$ because $0.8 > 0.3$. Explain.

12. Order: $-\frac{3}{4}$, 0.2 , -0.6 , $\frac{1}{2}$.

13. A student evaluates $24 \div 6 \times 2$ as 2. Explain the mistake.

14. Compare $4 + 3 \times 5$ and $(4 + 3) \times 5$.

15. A student says $4^3 = 12$. Explain.

16. Explain the difference between -5^2 and $(-5)^2$.

17. A square garden has area 144 m^2 . Find the side length.

18. Estimate $\sqrt{90}$. Explain your reasoning.

19. A student says $\sqrt{64} = 32$. Explain the mistake.

20. A student says every decimal is rational. Is that always true? Explain.
