SIGNIFICANT FIGURES IN CALCULATIONS

EVIDENCE NOTEBOOK TEACHER'S KEY

KEY IDEAS

> Significant Figures when Adding and Subtracting

Rule:

Example: 83.26 g + 24.9 g

> Significant Figures when Multiplying and Dividing

Rule:

Example: $38.65 m \times 105.93 m =$

GUIDED PRACTICE

- 1. 550 L 27.4 L
- 2. $\frac{1.80L}{36s}$
- 3. $12.5 cm \times 10.4 cm$
- 4. 0.028228 g + 0.002372 g

NAME:	 DATE:	 PERIOD:	

5. Kevin has 4 bowling balls which weigh 23.0 kg together. What is the average mass of one bowling ball?

CHECKPOINTS

- 6. Calculate the area of a rectangle that has the lengths of 58.3 μm and 41 μm .
- 7. Density is a measurement of the mass of an object divided by its volume. What would be the density of a substance that has a volume of 63.00 mL and a mass of 272.22 g?
- 8. 1 inch is exactly 2.54 centimeters. Convert 10.75 inches into centimeters.
- 9. $42.5 \text{ } km \times 167.8 \text{ } km$
- 10. 662.3 *L* 21.34 *L*
- 11. 6.782 *Gm* + 5.5 *Gm*
- 12. $\frac{47.280 \ g}{0.5621 \ mol}$

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13. $0.156 \ dm \times 3.200 \ dm \times 53.481 \ dm$

14.
$$\frac{625.8 \, Km}{4.81 \, hr}$$

15.
$$0.086 g + 8.32 g - 0.856 g$$