

1. Evaluate the following. You may use a calculator, but show the order of operations step-by-step.

$$\begin{aligned}
 7.5 + 2.2\sqrt{0.25} - 36.8 \div 8 &= 7.5 + 2.2(0.5) - 36.8 \div 8 \\
 &= 7.5 + 1.1 - 36.8 \div 8 \\
 &= 7.5 + 1.1 - 4.6 \\
 &= 8.6 - 4.6 \\
 &= \boxed{4}
 \end{aligned}$$

2. Evaluate by converting all decimal numbers into fractions, then using order of operations. Write your answer as a decimal rounded to the nearest hundredths place. You may use a calculator.

$$\begin{aligned}
 \frac{1}{4} + (-2.7) \div \frac{9}{2} \\
 &= \frac{1}{4} + \left(-\frac{27}{10}\right) \div \frac{9}{2} \\
 &= \frac{1}{4} + \left(-\frac{\cancel{27}^3}{\cancel{10}^5}\right) \cdot \frac{\cancel{2}^1}{\cancel{9}^1} \\
 &= \frac{1}{4} + \left(-\frac{3}{5}\right) \leftarrow \text{LCD} = 20 \\
 &= \frac{5}{20} + \left(-\frac{12}{20}\right) \\
 &= \frac{-7}{20} \\
 &= \boxed{-0.35}
 \end{aligned}$$

$$\begin{aligned}
 \frac{2}{5} \div (-0.8) + \left(\frac{1}{3}\right)^2 \\
 &= \frac{2}{5} \div \left(-\frac{8}{10}\right) + \left(\frac{1}{3}\right)^2 \\
 &= \frac{2}{5} \div \left(-\frac{8}{10}\right) + \frac{1}{9} \\
 &= \frac{\cancel{2}^1}{\cancel{5}^1} \cdot \left(-\frac{\cancel{10}^2}{\cancel{8}^4}\right) + \frac{1}{9} \\
 &= -\frac{1}{2} + \frac{1}{9} \\
 &= -\frac{9}{18} + \frac{2}{18} = -\frac{7}{18} \approx \boxed{-0.39}
 \end{aligned}$$

3. A student's grade report is shown below. Calculate the student's GPA. Round your answer to the nearest hundredths place.

Course	Credits	Grade	
Math	4.0	B+	3.5
English	3.0	A	4
Art	3.0	C	2
History	4.0	B	3

$$\begin{aligned} \text{GPA} &= \frac{(3.5)(4) + (4)(3) + (2)(3) + (3)(4)}{4 + 3 + 3 + 4} \\ &= \frac{14 + 12 + 6 + 12}{14} \\ &= \frac{44}{14} \\ &\approx \boxed{3.14} \end{aligned}$$

Q: A man while looking at a photograph said, "Brothers and sisters have I none. That man's father is my father's son." Who was the person in the photograph?