Signed fraction/decimal calculations

6 questions | 13 marks

Equivalent correct methods earn the corresponding marks.

1. Calculate $-\frac{2}{3}+\frac{1}{4}$. [2 marks]

$-\frac{8}{12}+\frac{3}{12}=-\frac{5}{12}$.

Answer: $-\frac{5}{12}$

2. Calculate $\frac{1}{2}-(-\frac{3}{5})$. [2 marks]

$\frac{1}{2}+\frac{3}{5}=\frac{5}{10}+\frac{6}{10}=\frac{11}{10}$.

Answer: $\frac{11}{10}$

3. Calculate $(-\frac{5}{6})(-\frac{9}{10})$. [2 marks]

The product is positive.

$\frac{45}{60}=\frac{3}{4}$.

Answer: $\frac{3}{4}$

4. Calculate $-\frac{3}{4}\div\frac{1}{8}$. [2 marks]

$-\frac{3}{4}\times 8=-6$.

Answer: -6

5. Calculate $-2.4+0.75$. [2 marks]

$-2.40+0.75=-1.65$.

Answer: -1.65

6. The temperature is -1.5°C. It falls by 2.75°C, then rises by 0.5°C. Find the final temperature. [3 marks]

$-1.5-2.75+0.5=-4.25+0.5=-3.75$.

Answer: -3.75°C