MEMORANDUM

Name: ..... Class: .....

Date: .....

MARK ____ / 13

Answer all questions. Show all your working — marks are awarded for method as well as the final answer. **Teacher copy: accept any correct equivalent method.**

1 Arrange in ascending order: $-4,\ 6,\ -9,\ 0,\ 2$ (2)

$-9, -4, 0, 2, 6$ ✓✓ (2)

2 Fill in $<$ or $>$: -7 ___ -3 (1)

$-7 < -3$ (-7 is further left) ✓ (1)

3 $(-8) + (-5)$ (1)

Same signs → $8 + 5 = 13$ → **-13** ✓ (1)

4 $(-12) + 7$ (1)

Different signs → $12 - 7 = 5$, bigger is negative → **-5** ✓ (1)

5 $15 + (-20)$ (1)

Different signs → $20 - 15 = 5$, bigger is negative → **-5** ✓ (1)

6 $6 - (-9)$ (1)

$6 + 9 =$ **15** ✓ (1)

7 $(-4) - 7$ (1)

$-4 + (-7) =$ **-11** ✓ (1)

8 $(-7) - (-10)$ (1)

$-7 + 10 =$ **3** ✓ (1)

9 The temperature is -6 °C and rises by 4 °C. What is the new temperature? (2)

$-6 + 4 =$ **-2 °C** ✓✓ (2)

10 A submarine at -120 m rises 45 m. What is its new position? **(2)**

$-120 + 45 = \mathbf{-75\ m}$ (75 m below the surface) ✓✓ **(2)**

TOTAL: 13 marks

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