Negative Numbers & Integers: Medium Practice Paper 6 Answers

Q#	Answer	Explanation
1	B	Work from left to right. Starting at −7 and going up 12 gives 5, then coming down 9 from 5 gives −4.
2	A	Taking away a negative number is the same as adding the positive one, so 8 − (−5) becomes 8 + 5 = 13.
3	C	The coldest place has the lowest temperature, and a negative number gets lower the further it is below zero. Moscow's −14°C is lower than −9°C and −6°C, so Moscow was coldest.
4	C	Subtracting a negative is the same as adding, so the calculation becomes −4 + 11. Counting up 11 from −4 reaches 7.
5	E	Count up in two stages. From −12 up to 0 takes 12, and from 0 up to 5 takes 5 more, so 12 + 5 = 17 must be added.
6	B	The sequence goes up in fours. After −5 comes −1, which is still below zero, and after that −1 + 4 gives 3. That is the first term above zero.
7	C	In golf the lowest score is the best one. The lowest number in the table is −5, so Chloe had the best score, taking five shots fewer than par.
8	D	Work from left to right. A negative times a positive is negative, so −5 × 4 gives −20. A negative divided by a negative is positive, so −20 ÷ (−2) gives 10.
9	A	Coldest means lowest, and a negative number is lower the further it lies below zero. So −11 comes first, then −7, then −3, then 0 and finally 2.
10	B	Apply the changes one at a time. Starting at 15, taking away 28 gives −13. Adding 9 gives −4, and taking away 12 gives −16, so the balance is −£16.
11	C	Going back up undoes the fall, so add the 11 degrees on again. Counting up 11 from −4 reaches 7, so the temperature was 7°C.

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12	A	On a number line −8 lies further to the left than −3, and numbers get smaller towards the left. So −8 is the smaller number, even though the digit 8 is bigger than the digit 3.
13	A	The answer is negative but 20 is positive, so the missing number must be negative. Since 20 ÷ 5 = 4, the missing number is −5.
14	B	The positive scores come to 6 and the negative ones come to 4 + 7 + 2 = 13 below zero. Starting from 6 and going down 13 gives −7.
15	A	Count the steps from −5 to each number: 9 steps down to −14, 4 steps to −9, 4 steps up to −1, 5 steps up to 0 and 8 steps up to 3. The biggest gap is the 9 steps, so −14 is furthest away.

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