Negative Numbers & Integers: Hard Practice Paper 5 Answers

Q#	Answer	Explanation
1	E	8 × 9 = 72, and two negatives multiplied give a positive answer, so −8 × (−9) = 72.
2	C	60 ÷ 12 = 5, and a negative divided by a negative gives a positive answer, so the result is 5.
3	B	Multiplication and division come first: −3 × 4 = −12 and 20 ÷ (−5) = −4. Then −12 + (−4) = −16.
4	B	The total is −12 − 7 − 5 + 0 = −24, and −24 ÷ 4 = −6.
5	C	Each term is 4 more than the one before: −5, −1, 3, 7, 11, 15, 19, 23. The first term above 20 is 23, which is the 8th.
6	D	4x means 4 × (−2) = −8, so 5 − (−8) = 5 + 8 = 13.
7	C	It must rise 120 m in total, and 120 ÷ 15 = 8 minutes.
8	C	The total rise is 15 − (−9) = 24 degrees, and 24 ÷ 6 = 4 degrees each hour.
9	D	$(-5)^2$ means −5 × (−5). Two negatives multiplied give a positive, so the answer is 25.
10	B	Take 9 from both sides: 2x = −5 − 9 = −14. Then x = −14 ÷ 2 = −7.
11	A	The answers are 24, −25, −12, −21 and −18. Only −4 × (−6) is positive, so 24 is the largest.
12	C	The negatives total −6 − 9 − 11 = −26 and the positives total 4 + 2 = 6, so the score is −26 + 6 = −20.
13	B	The distance from −40 to 24 is 64, and half of 64 is 32. Counting 32 on from −40 gives −8.
14	C	London was 47 degrees warmer, so −34 + 47 = 13°C.
15	A	−2 × (−3) = 6, and 6 × (−4) = −24. An odd number of negative signs gives a negative answer, while all the others have two negatives and give positive answers.

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