Negative Numbers & Integers: Hard Practice Paper 1 Answers

Q#	Answer	Explanation
1	D	Two negative numbers multiplied together give a positive answer, and 6 × 4 = 24, so −6 × (−4) = 24.
2	C	36 ÷ 9 = 4, and dividing a negative by a negative gives a positive answer, so the result is 4.
3	B	Multiplication comes before addition: 3 × (−4) = −12, then −5 + (−12) = −17.
4	C	The temperatures are −7 at 1 am, −5 at 2 am, −3 at 3 am, −1 at 4 am and 1 at 5 am, so 5 am is the first time above 0°C.
5	B	The total is −6 − 2 + 4 − 8 = −12, and −12 ÷ 4 = −3.
6	B	The terms are 9, 2, −5, −12, −19, so the 5th term is −19.
7	B	2a means 2 × (−3) = −6, and −6 + 5 = −1.
8	D	From −13 up to 0 is 13 degrees and from 0 up to 21 is 21 more, so the rise needed is 13 + 21 = 34 degrees.
9	C	Rewrite the signs: −8 + 15 − 4. Then −8 + 15 = 7 and 7 − 4 = 3.
10	B	In 6 minutes she descends 6 × 3 = 18 m, and −8 − 18 = −26, so she is at −26 m.
11	A	The values are 15, −16, −12, −13 and −18. Only −3 × (−5) is positive, because two negatives multiplied give a positive.
12	B	The total is −4 + 1 − 7 − 2 + 2 = −10, and −10 ÷ 5 = −2.
13	B	The two known numbers total −5 + 4 = −1, so the third must be −6 − (−1) = −6 + 1 = −5.
14	B	Take 12 away from both sides: x = 5 − 12 = −7. Checking, −7 + 12 = 5.
15	D	The difference is 27 − (−53) = 27 + 53 = 80 degrees.

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