Negative Numbers & Integers: Medium Practice Paper 8 Answers

Q#	Answer	Explanation
1	C	Work from left to right. Counting up 35 from −20 passes zero and reaches 15, then 15 − 8 = 7.
2	A	Both numbers are below zero, so they build up together. Six below zero and nine below zero make fifteen below zero, which is −15.
3	B	The rise is the midday reading take away the midnight one. Monday rose 7 degrees, Tuesday 9, Wednesday 8, Thursday 6 and Friday 4, so the largest rise was on Tuesday.
4	E	Work each one out: −20 ÷ 2 gives −10, −7 + 15 gives 8, 5 − (−6) gives 11 and −2 × 6 gives −12. Two negatives multiplied give a positive, so −3 × (−4) gives 12, which is the largest.
5	A	Eight less means eight steps to the left on a number line. Counting 8 down from −3 reaches −11.
6	A	Taking the number away has made the answer bigger, so the missing number must itself be negative. Subtracting −7 is the same as adding 7, and counting 7 up from −4 reaches 3.
7	C	Work out each change: the balance rose 25 from Week 1 to Week 2, fell 10 by Week 3, rose 35 from Week 3 to Week 4 and fell 5 by Week 5. The biggest rise is the 35 between Week 3 and Week 4.
8	A	Multiplying two negative numbers gives a positive answer, so −5 × (−3) gives 15. Every other calculation here finishes below zero.
9	B	Add them first. The positives come to 3 and the negatives to 11 below zero, so the total is 8 below zero. Then −8 shared between 4 numbers gives −2.
10	D	Largest first means starting at the highest number and working down: 4, then 0, then −2, then −9 and finally −13, which lies furthest below zero.
11	C	The temperature has to climb 18 degrees to reach zero, and it rises 2 degrees each hour, so it takes 18 ÷ 2 = 9 hours.

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12	C	Multiplication comes first: −7 × 3 gives −21. Then counting 25 up from −21 passes zero and reaches 4.
13	A	The other number is −5 take away 8, and counting 8 down from −5 reaches −13. Check: starting at 8 and going down 13 gives −5.
14	C	It takes 12 steps to go from −18 up to −6, and half of 12 is 6. Six steps up from −18 lands on −12.
15	B	The profits come to 120 + 410 = 530 pounds and the losses come to 350 + 80 = 430 pounds. Then 530 − 430 = 100, so the shop made a profit of £100.

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