Negative Numbers & Integers: Hard Practice Paper 8

Q1. What is −15 × (−4)?

A. −60 *B.* −19 *C.* 19 *D.* 45 *E.* 60

Q2. What is −126 ÷ (−9)?

A. −14 *B.* −12 *C.* 12 *D.* 14 *E.* 117

Q3. What is 30 ÷ (−5) − (−8)?

A. −14 *B.* −2 *C.* 2 *D.* 6 *E.* 14

Q4. The table shows the midnight temperature on five nights. What is the mean midnight temperature?

Night	Temperature
Monday	−9°C
Tuesday	−2°C
Wednesday	4°C
Thursday	−6°C
Friday	−2°C

A. −5°C *B.* −4°C *C.* −3°C *D.* −2°C *E.* 3°C

Q5. The lowest temperature ever recorded on Earth is −89°C and the highest is 57°C. What is the difference between them?

A. 32°C *B.* 132°C *C.* 142°C *D.* 146°C *E.* 156°C

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Q6. A sequence starts at −2 and each term is double the one before: −2, −4, −8, … What is the 6th term?

A. −128 *B.* −64 *C.* −48 *D.* −32 *E.* 64

Q7. If $x = -3$ and $y = -5$, what is the value of $xy - x$?

A. −18 *B.* −12 *C.* 12 *D.* 18 *E.* 22

Q8. The product of three numbers is negative and none of them is zero. Which of these must be true?

A. An odd number of them are negative

B. All three of them are negative

C. Exactly one of them is negative

D. Exactly two of them are negative

E. All three of them are positive

Q9. Solve for x.

$$-3x + 7 = 22$$

A. −15 *B.* −5 *C.* −3 *D.* 5 *E.* 15

Q10. The table shows which floor each person works on, where basement floors are negative. Who works 7 floors above Nadia?

Person	Floor
Ali	5
Bea	−3
Cal	1
Dee	−5
Nadia	−2

A. Ali *B.* Bea *C.* Cal *D.* Dee *E.* No one

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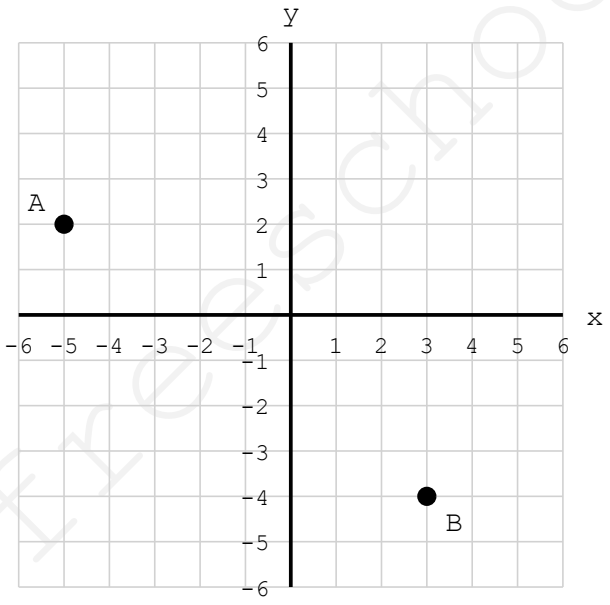
Q11. The range of five numbers is 20 and the lowest of them is −13. What is the highest?

A. −33 *B.* −7 *C.* 7 *D.* 20 *E.* 33

Q12. A submarine dives from the surface at 12 m a minute for 8 minutes, then rises 35 m. How deep is it now?

A. −131 m *B.* −96 m *C.* −61 m *D.* −35 m *E.* 61 m

Q13. Points A and B are marked on the grid. What are the coordinates of the midpoint of AB?



A. (−1, −1) *B.* (−2, −1) *C.* (−1, −2) *D.* (−4, −2) *E.* (4, 3)

Q14. Which of these calculations gives an answer between −10 and 0?

A. −4 × 3 *B.* −18 ÷ 2 *C.* −7 − 6 *D.* −20 + 4 *E.* 5 − (−3)

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Q15. On a mountain the temperature falls 7 degrees for every kilometre climbed. At the foot it is 12°C. What is the temperature 5 km higher up?

A. −35°C *B.* −23°C *C.* −18°C *D.* 23°C *E.* 47°C

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