

CLASS 7

MATHS

EXTRA QUESTIONS

Extra Questions for Class 7 Maths Chapter 10: Operations with Integers – HOTS

Fresh HOTS practice questions for Class 7 Maths Chapter 10 "Operations with Integers", testing multiplication, division, and real-world integer applications with new numbers.

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Q1.

Find the value of $(-15) \times (-4) \div 6$.

Answer: $(-15) \times (-4) = 60$; $60 \div 6 = 10$

Q2.

A submarine descends at a rate of 12 m per minute. If it starts at sea level (0 m), what is its position after 8 minutes?

Answer: Position = $0 - (12 \times 8) = -96$ m (96 m below sea level)

Q3. Assertion-Reason

Assertion (A): The product of three negative integers is negative.

Reason (R): An odd number of negative factors makes the overall product negative.

Answer: Both A and R are true, and R correctly explains A.

Q4.

Find the value of x if $x \times (-9) = -108$.

Answer: $x = -108 \div (-9) = 12$

Q5. Spot the error

A student computed $(-8) \times (-3) \times (-2)$ as “positive 48”. Identify and correct the error.

Answer: This is incorrect. With three negative factors (an odd count), the result should be negative: $(-8) \times (-3) = 24$, then $24 \times (-2) = -48$.

Q6.

A shop makes a profit of Rs. 12 per notebook sold and a loss of Rs. 3 per pen sold (due to a discount scheme). If 200 notebooks and 500 pens are sold, what is the overall profit or loss?

Answer: Profit from notebooks = $200 \times 12 = \text{Rs. } 2400$. Loss from pens = $500 \times 3 = \text{Rs. } 1500$. Net = $2400 - 1500 = \text{Rs. } 900$ profit

Q7.

Find three consecutive integers whose product is -120 .

Answer: Try three consecutive negative integers $-6, -5, -4$: $(-6) \times (-5) \times (-4) = 30 \times (-4) = -120$. So the required integers are $-6, -5, -4$.

Q8.

Evaluate: $(-25) \times (-4) - (-30) \div 5$

Answer: Using order of operations: $(-25) \times (-4) = 100$; $(-30) \div 5 = -6$; $100 - (-6) = 106$

Q9.

In a quiz, +5 marks are given for a correct answer and -3 for a wrong one. A student attempted all 20 questions and scored 44. How many were correct?

Answer: Let c = correct, $(20 - c)$ = wrong. $5c - 3(20 - c) = 44 \rightarrow 5c - 60 + 3c = 44 \rightarrow 8c = 104 \rightarrow c = 13$ **correct answers**

Q10.

Arrange in increasing order: $(-6) \times (-7)$, $(-6) + (-7)$, $6 - (-7)$, $6 \times (-7)$

Answer: Values: 42, -13 , 13, -42 . Increasing order: $6 \times (-7) < (-6) + (-7) < 6 - (-7) < (-6) \times (-7)$ (i.e., $-42 < -13 < 13 < 42$)

See also: [NCERT Solutions for Class 7 Maths Chapter 10](#)

Revision Notes: [Revision Notes for Class 7 Maths Chapter 10](#)