Name: _____ Date: _____

Multiplication of Integers

Q1. Find the product $(-10) \times (-3) \times (-5) \times 7$

Sol.

Q2. In a class test containing 20 questions, 5 marks are given for every correct answer and (–2) marks are given for every incorrect answer. Ria attempts all questions but only 16 of her answers are correct.
What is her total score?

Sol.

Q3. Find the product, using suitable properties:
(a) $22 \times (-45) + (-45) \times (-16)$ (b) $8 \times 11 \times (-125)$

Sol.

Q4. Determine the integer whose product with (–1) is -36.

Sol.

Answers

Multiplication of Integers

Q1. Find the product (−10) × (−3) × (−5) × 7

Sol. [(-10) x (-5)] x [(-3) x 7]

= 50 x (-21)

= -1050

Q2. In a class test containing 20 questions, 5 marks are given for every correct answer and (−2) marks are given for every incorrect answer. Ria attempts all questions but only 16 of her answers are correct.
What is her total score?

Sol. Marks given for one correct answer = 5

So, marks given for 16 correct answers = 5 × 16 = 80

Marks given for one incorrect answer = − 2

So, marks given for 4 (= 20 − 16) incorrect answers = (−2) × 4 = −8

Therefore, Ria's total score = 80 + (−8) = 72

Q3. Find the product, using suitable properties:
(a) 22 × (− 45) + (− 45) × (−16) (b) 8 × 11 × (−125)

Sol. (a) 22 × (− 45) + (− 45) × (−16)

= -45 [22 + (-16)]

= -45 x 6

= -270

(b) 8 × 11 × (−125)

= [8 × (−125)] x 11

= (-1000) x 11

= -11000

Q4. Determine the integer whose product with (−1) is -36.

Sol. 36 x (-1) = -36