

Topic Integers









Worksheet on Integers

- 1. A number changes from −30 to 55. What is the increase or decrease in the number?
 - a. Increases by 75
 - b. Decreases by 75
 - c. Increases by 85
 - d. Decreases by 85
- 2. The product of two integers is -91.5. If one of them is 12.2, what is the other integer?
 - a. -6
 - b. -7.5
 - c. -7
 - d. -8.5
- 3. What is the result of the following statement?

 Statement: Add the product of 9.5 and (−2.25) to the quotient of (−161) and 23.
 - a. 14.375
 - b. -37
 - c. 28.375
 - d. -375
- 4. A shopkeeper earns a profit of \$2 by selling a pen and incurs a loss of 40 cents per pencil and a loss of 25 cents per eraser while selling pencils and erasers of old stock. On a particular day, he earns a profit of \$10. If he sold 10 pens and the number of pencils and erasers he sold are in the ratio 5 : 12, what is the number of pencils and erasers she sold on that day?
 - a. 5 Pencils and 12 erasers
 - b. 10 Pencils and 24 erasers
 - c. 15 Pencils and 24 erasers
 - d. 15 Pencils and 36 erasers
- 5. In a quiz, \$285 is awarded for every correct answer and a penalty of \$75 is put for every incorrect answer. Tesla answered 15 questions out of which only 7 answers were correct. How much money is earned by Tesla in the quiz?
 - a. \$1395
 - b. \$1595
 - c. \$1795
 - d. \$1995

Answer Key

1. c - Increases by 85

Explanation: The number changes from -30 to 55 = 55 - (-30)= 55 + 30 = 85

- : It will be increased.
- **2.** b (-7.5)

Explanation: The product of two integers = -91.5

One integer = 12.2

 $\therefore Second integer = -91.5 \div 12.2$ = -7.5

3. d - (-28.375)

Explanation: Add the product of 9.5 and (-2.25) to the quotient of (-161) and 23.

$$= [9.5 \times (-2.25)] + [(-161) \div 23)]$$

$$= (-21.375) + (-7)$$

$$= -28.375$$

4. b - 10 Pencils and 24 erasers

Explanation: By selling a pen, gain per pen = \$2

By selling pencils, loss per pencil = 40 cents

By selling an eraser, loss per eraser= 25 cents

On one day, he gains = \$10

On that day, he sold 10 pens and pencils and erasers in a ratio of 5:12

On ten pens, his gain = $10 \times 2

Loss on pencils and erasers = $$20 - $10 = $10 = 10 \times 100$ cents

Ratio in pencil and erasers = 5:12

Let the number of pencils be 5a and the number of erasers is 12a.

Loss on pencils and erasers = 1000 cents

$$\Rightarrow$$
 5a × 40 + 12a × 25 = 1000

$$\Rightarrow$$
 a = 2

Number of pencils = $5 \times a = 5 \times 2 = 10$

Number of erasers = $12 \times a = 12 \times 2 = 24$

5. a - \$1395

Explanation: In a quiz, \$285 is awarded for every correct answer and \$75 is put as the penalty for every incorrect answer.

Tesla answered 15 questions but 7 questions were correct answers. Number of correct answers = 7 Money earned for correct answers = $7 \times \$285 = \1995 Number of incorrect answers = 15 - 7 = 8 Money deducted (Penalty) for incorrect answers = $\$75 \times 8 = \600 Money earned by Tesla in the quiz = \$1995 - \$600 = \$1395

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