

Two-Step Equations - Integers

Sheet 2

- 1) Brad, a teenager, saves up his monthly allowance over a period of six months to buy a pair of high-resolution headphones. He lends his friend, Jorge \$10 from his savings. If Brad has \$272 now, calculate his monthly allowance.

- 2) Sam divided his salary equally into two. One part was saved for his family and the other part was for his own expenses. He had \$1000 left over after he had spent \$200 on a watch. If he has \$1000 left over, how much did he have to purchase a watch?

- 3) A total of 750 students attended a school assembly. The number of girls was 200 more than the number of boys. How many boys attended the assembly?

- 4) Ella bought two boxes of candy bars from a store. If her total purchase was \$12.00 and each box cost \$3.00, how many candy bars were in each box?

- 5) Payton runs a kiosk on Route 66. Half the canned drinks in stock were sold out and empty cans were sent for recycling. Payton bought 68 more canned drinks to restock the kiosk. If there is a total of 200 cans now, how many canned drinks were in stock initially?

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Answer key**Two-Step Equations - Integers**

Sheet 2

- 1) Brad, a teenager, saves up his monthly allowance over a period of six months to buy a pair of high-resolution headphones. He lends his friend, Jorge \$10 from his savings. If Brad has \$272 now, calculate his monthly allowance.

$$6x - 10 = 272 ; \$47$$

- 2) Sam divided his salary equally into two. One part was saved for his family and the other part was for his watch. If he has \$200 left, calculate his salary.

$$\frac{x}{2} - 200 = 0$$

- 3) A total of 750 students attended a school assembly. The number of girls was 200 more than the number of boys. How many boys attended?

$$x + 2x = 750$$

- 4) Ella bought two boxes of candy bars from a store. If her total purchase was \$45, how much did each box cost?

$$15 + 3x = 45 ; \$10$$

- 5) Payton runs a kiosk on Route 66. Half the canned drinks in stock were sold out and empty cans were sent for recycling. Payton bought 68 more canned drinks to restock the kiosk. If there is a total of 200 cans now, how many canned drinks were in stock initially?

$$\frac{x}{2} + 68 = 200 ; 264 \text{ cans}$$

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