4-6 Writing Equations

Ex. 1 Translate the sentence into an equation

Five more than twice a number is -25

$$5 + 2 \cdot n = -25$$

Ex. 2 Translate the sentence into an equation

Jackie's mother is 28 years old, which is four times Jackie's age minus eight years.

4n - 8 = 28

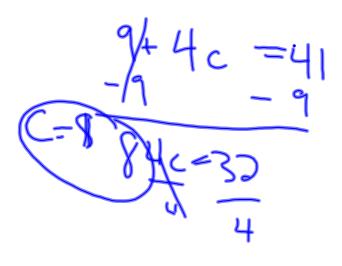
Ex. 3 Translate the sentence into an equation

Randy threw a baseball 84 miles per hour, which is 21 miles per hour less than twice the speed that Jonah threw it.

2s - 21 = 84

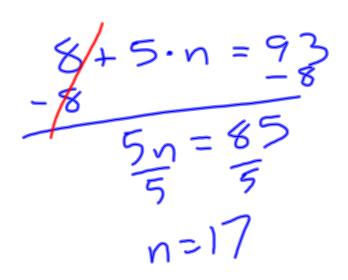
Ex. 4 Write an equation and solve.

A baseball bat costs \$41 at the store, which is \$9 more than four times the cost to make the bat. Find the cost to make the bat.



Ex. 5 Write an equation and solve.

Jack is thinking of a number. Eight more than the product of 5 and the number is 93. Find Jack's number.



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Ex. 6 Write an equation and solve.

The Backpacking club is having some posters printed. The printer charges \$180 plus \$2.50 per poster. How many posters can be printed for \$1000?

$$P = 328$$

$$- 180 + 2.50 P = 1000$$

$$- 180$$

$$2.50 P = 830$$

$$2.50$$