



Hands-On-Equations

Verbal Problems



The following problems may be solved using Hands-On-Equations. If the student can solve a problem mentally, or by guessing and checking, such a solution should be accepted.

1. Three times a number, increased by 1, is 25. Find the number.
2. If 3 is added to twice a number, the result is 17. Find the number.
3. 3 more than six times a number is 15. Find the number.
4. When a number is increased by 8, the result is 13. Find the number.
5. Four times a number, increased by 3, is the same as twice the number, increased by 9. Find the number.
6. Three times a number, increased by 7, gives the same result as four times the number, increased by 5. Find the number.
7. If 7 is added to twice a number, the result is the same as if 11 is added to the number itself. Find the number.
8. 3 more than five times a number, is the same as 18 more than twice the number. Find the number.
9. Sally is 4 years older than Tim. Together, the sum of their ages is 20. How old is each?
10. James is three times as old as Carmen. Together their ages add up to 24. How old is each?
11. Jim is 2 years older than 3 times his little brother, Tommy. Together, their ages add up to 18. How old is each?
12. John is 2 years older than 3 times his little brother, Tommy. Together, their ages equal four times Kathy's age. How old is each?
13. Four times a number, diminished by 6, yields the same result as twice the same number increased by 4. Find the number.



Hands-On-Equations

Additional Verbal Problems

1. You can buy 5 small pizzas for the same price as 3 small pizzas and 10 one dollar drinks. How much does each pizza cost?
2. Old McDonald's 3 hens each lay the same number of eggs one week. This gives Old McDonald's wife enough eggs to make two recipes. One recipe requires 10 eggs and the other recipe requires 2 eggs. How many eggs did each hen lay?
3. The vet put 2 litters of kittens in a cage with 5 other kittens. She also put 3 litters of puppies in the next cage with 1 other puppy. If all of the litters have the same number of animals and the cages now contain the same number of animals, how many animals are in each litter?
4. Brian buys 1 pack of baseball cards to add to the 2 cards a friend gave him. Then his mother gives him 2 more packs as a special treat. Now he has as many cards as Marcus who owns 1 pack plus 12 loose cards. How many cards are in each pack?
5. Paul owns a set of model cars. His brother gives him 3 more sets for his birthday. Then Paul gives 1 set to a friend who really likes model cars but doesn't have any. Now Paul has 30 model cars left. How many model cars are in each set?
6. Tanner likes to collect comic books. He has 3 sets of same title comics and 5 other comic books. His friend, Scott, has 1 set (the same as Tanner's) and 19 other comics. The total number of comic books owned by Tanner and Scott is the same. How many books are in each set?
7. Erin can buy 5 putt-putt tickets and 2 one dollar boxes of popcorn for the same price as 3 putt-putt tickets and 12 one dollar boxes of popcorn. How much does each putt-putt ticket cost?
8. Allison has 2 aquariums. In each aquarium she has 2 families of guppies and 3 tetras. Leigh has 1 aquarium with 10 tetras and 3 families of guppies. Allison and Leigh have the same number of fish and their guppy families each have the same number of members. How many guppies are in each family?