Master Maths 7 Worksheet 34
Solving Equations - Problem Solving

34

Name: _____

1. Write the following problems as equations using x to represent the number. Solve the equations using an appropriate method.

(a) When this number is multiplied by 2 and then 8 is added to the result the answer is 26.

Equation: _____

$x =$

(b) When this number is divided by 4 and then 5 is added to the result the answer is 11.

Equation: _____

$x =$

2. Six bricks plus 5 kg weighed 23 kg.

(a) Write this as an equation using b to represent the weight of a brick.

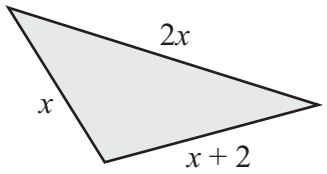
Equation: _____

(b) Solve this equation to find the weight of a brick.

$b =$

(c) 20 bricks weighed the same as two bags of cement.
Find the weight of a bag of cement.

3. The perimeter of this triangle is 26 cm.
The three side lengths are shown on the diagram.
Use trial and error to find x.



$x =$

4. Jonas is 9 years older than his youngest brother, Jaan. In two years Jonas will be twice Jaan's age.
How old is Jonas?

5. A 24 m long length of rope is cut into two pieces. One is 4 m longer than the other.
Find the length of the two pieces of rope.

6. There were 60 students on a school camp.
One day there were two activities - canoeing and hiking.
Those who went canoeing were told to take one bottle of water each.
Those who went hiking were told to take two bottles of water each.
75 bottles of water were taken.
How many students went on each activity?

Canoeing

Hiking

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