Write equations with variables

Grade 3 Word Problems Worksheet

1.   Ben has 23 pairs of shoes and 3 pairs of socks on his shoe rack.
        There are 12 leather shoes and r rubber shoes.

2.   There are f big fishes in the oceanarium. There are 34 freshwater
        fish and 47 saltwater fish.

3.   Danny bought 45 eggs and 12 eggplants. He accidentally
        broke 9 of the eggs and there were e eggs left.

4. Carl is reading a novel with p pages. He has read 12 pages and there are 26 pages left unread.

5. At the convenience store, 46 cups of soda were displayed. 9 large cups and 16 small cups were sold yesterday. There were c cups left at the store.

6. Fred had 40 marshmallows. She ate 12 marshmallows and gave m marshmallows to her cousin Jane. She has 17 marshmallows left.

Answers

Note: There are several possible correct equations for each problem.

1. $r + 12 = 23$ or $23 - 12 = r$
    $r = 11$

2. $f = 34 + 47$
    $f = 81$

3. $45 - e = 9$ or $45 - 9 = e$
    $e = 36$

4. $p - 12 = 26$ or $26 + 12 = p$
    $p = 38$

5. $c = 46 - 9 - 16$
    $c = 21$

6. $40 - 12 - m = 17$
    $28 - m = 17$ or $17 + 12 + m = 40$
    $m = 11$