

Equation word problems

NAME	DATE	SCORE / 10
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Write an equation for each problem, then solve it.

1 A taxi charges \$5 plus \$2 for each kilometre. Ivy's ride cost \$31. How many kilometres long was the ride?

2 A gym charges \$20 to join, plus \$20 each month. Ivy has paid \$240 in all. How many months has Ivy paid for?

3 A class rents a bus for a trip. The bus costs \$200 plus \$5 for each student, and the total cost is \$280. How many students go on the trip?

4 Leo runs x km on Monday, 5 times as far on Tuesday, and 2 km less than on Monday on Wednesday. Leo runs 75 km in all. The equation $x + 5x + x - 2 = 75$ shows this. How many kilometres does Leo run on Monday?

5 The sides of a triangle are x cm, $2x$ cm and $(x + 6)$ cm long, and its perimeter is 62 cm. The equation $x + 2x + x + 6 = 62$ shows this. What is the value of x ?

6 Emma runs x km on Monday, 5 times as far on Tuesday, and 5 km less than on Monday on Wednesday. Emma runs 44 km in all. The equation $x + 5x + x - 5 = 44$ shows this. How many kilometres does Emma run on Monday?

7 5 friends each buy a ticket and a \$4 drink. They pay \$105 in all. The equation $5(t + 4) = 105$ shows this, where t is the price of one ticket, in dollars. What is the price of one ticket, in dollars?

8 Ana buys 2 shirts that each cost x dollars, with \$6 off each shirt, and pays \$14 in all. The equation $2(x - 6) = 14$ shows this. What is the price of one shirt before the money off, in dollars?

9 Plant A is 53 cm tall and grows 2 cm each week. Plant B is 31 cm tall and grows 4 cm each week. The equation $53 + 2w = 31 + 4w$ shows when the plants are the same height. After how many weeks will the plants be the same height?

10 Plant A is 79 cm tall and grows 4 cm each week. Plant B is 31 cm tall and grows 8 cm each week. The equation $79 + 4w = 31 + 8w$ shows when the plants are the same height. After how many weeks will the plants be the same height?

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1	13	2	11	3	16
4	11	5	14	6	7
7	17	8	13	9	11
10	12				