

Situation	Pick a variable and state what it stands for.	Write an equation using the variable
13. Erica is thinking of a number. If you divide her number by 3 then subtract 13.5, the result is 2.8.	Let $n = \text{Erica's number}$	Then $\frac{n}{3} - 13.5 = 2.8$
13. Five subtract 3 times a number is equal to 3.5 times the same number, subtract 8.	Let $n = \text{unknown number}$	Then $5 - 3n = 3.5n - 8$
15. Twelve percent of a number is 39.48.	Let $n = \text{unknown number}$	Then $0.12n = 39.48$
17. Steve works in a clothing store. He earns \$1925 a month, plus a commission of 10% of his sales. One month, Steve earned \$2725.	Let $s = \text{Steve's sales (\$)}$	Then $1925 + 0.1s = 2725$
A part-time sales clerk at a store is offered two methods of payment. Plan A: \$1500 per month with a commission of 4% on his sales Plan B: \$1700 per month with a commission of 2% on his sales	Let $s = \text{clerk's sales (\$)}$	Then $1500 + 0.04s = 1700 + 0.02s$
18. Assessment Focus: Hendrik has a choice of 2 companies to rent a car. Company A charges \$199 per week, plus \$0.20 per kilometre driven. Company B charges \$149 per week, plus \$0.25 per kilometre driven.	Let $k = \text{number of km Hendrik drives}$	Then $199 + 0.2k = 149 + 0.25k$
12. Two rental halls are considered for a wedding. Hall A costs \$50 per person. Hall B costs \$2000, plus \$40 per person.	Let $n = \text{number of people who attend the wedding}$	Then $50n = 2000 + 40n$
A parallelogram has one shorter side of length 1.2 cm and perimeter 6.6 cm.	Let $l = \text{length of the longer side of the parallelogram}$	Then $2.4 + 2l = 6.6$

