

A.A.1: Expressions 2: Translate a quantitative verbal phrase into an algebraic expression

- 1 Which algebraic expression represents 15 less than x divided by 9?
- 2 A correct translation of “six less than twice the value of x ” is
- 3 Which expression represents “5 less than twice x ”?
- 4 Jose wants to ride his bike a total of 50 miles this weekend. If he rides m miles on Saturday, which expression represents the number of miles he must ride on Sunday?
- 5 Marcy determined that her father's age is four less than three times her age. If x represents Marcy's age, which expression represents her father's age?
- 6 Julie has three children whose ages are consecutive odd integers. If x represents the youngest child's age, which expression represents the sum of her children's ages?
- 7 Marie currently has a collection of 58 stamps. If she buys s stamps each week for w weeks, which expression represents the total number of stamps she will have?
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- 9 Which expression represents the number of hours in w weeks and d days?
- 10 If Angelina's weekly allowance is d dollars, which expression represents her allowance, in dollars, for x weeks?
- 11 Timmy bought a skateboard and two helmets for a total of d dollars. If each helmet cost h dollars, the cost of the skateboard could be represented by
- 12 Owino gets paid \$280 per week plus 5% commission on all sales for selling electronic equipment. If he sells n dollars worth of electronic equipment in one week, which algebraic expression represents the amount of money he will earn that week?
- 13 Tim ate four more cookies than Alice. Bob ate twice as many cookies as Tim. If x represents the number of cookies Alice ate, which expression represents the number of cookies Bob ate?
- 14 Mr. Turner bought x boxes of pencils. Each box holds 25 pencils. He left 3 boxes of pencils at home and took the rest to school. Which expression represents the total number of pencils he took to school?
- 15 What is the perimeter of a regular pentagon with a side whose length is $x + 4$?
- 16 The length of a rectangular room is 7 less than three times the width, w , of the room. Which expression represents the area of the room?

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1 ANS:

$$\frac{x}{9} - 15$$

REF: 081110ia

2 ANS:

$$2x - 6$$

REF: 081215ia

3 ANS:

$$2x - 5$$

REF: 061301ia

4 ANS:

$$50 - m$$

REF: 011507ia

5 ANS:

$$3x - 4$$

REF: 061204ia

6 ANS:

$$3x + 6$$

$$x + x + 2 + x + 4 = 3x + 6$$

REF: 011430ia

7 ANS:

$$58 + sw$$

REF: 060904ia

8 ANS:

$$58 + sw$$

REF: 081305ia

9 ANS:

$$168w + 24d$$

REF: 061323ia

10 ANS:

$$dx$$

REF: 011303ia

11 ANS:

$$d - 2h$$

REF: 011205ia

12 ANS:

$$280 + 0.05n$$

REF: 061519ia

13 ANS:

$$2(x + 4)$$

REF: 011104ia

14 ANS:

$$25x - 75$$

$$25(x - 3) = 25x - 75$$

REF: 060823ia

15 ANS:

$$5x + 20$$

$$5(x + 4) = 5x + 20$$

REF: 081013ia

16 ANS:

$$3w^2 - 7w$$

$$A = lw = (3w - 7)(w) = 3w^2 - 7w$$

REF: 010924ia