Match the sentence in the first column with the corresponding equation in the second column.

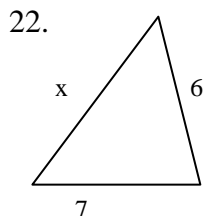|				
1.	Three more than twice a number is nine.		a.	$2 - 3x = 9$
2.	Two less than three times a number is nine.		b.	$3(x - 2) = 9$
3.	Three times the number which is two less than x is nine.		c.	$2x + 3 = 9$
4.	Two times the number which is three less than x is nine.		d.	$2(x + 3) = 9$
5.	Two times the quantity three more than x is nine.		e.	$3(2 - x) = 9$
6.	Three less than the product of two and x is nine.		f.	$2(x - 3) = 9$
7.	Two decreased by three times a number is nine.		g.	$2x - 3 = 9$
8.	Three times the quantity two decreased by x is nine.		h.	$3x - 2 = 9$

Translate each sentence into an equation.

9.   One half of a number is four.

10.   Three more than a number is eight.

11.   Six less than a number is nine.

12.   The number x is seven more than one fourth of itself

13.   Five less than twice a number is 15.

14.   Two times the quantity x minus 1 is 12.

15.   Eleven more than twice x is five less than x.

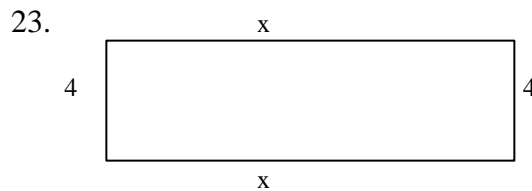16.   Nine times x is twice the sum of x and five.

Solve each problem over the domain {2, 3, 4, 5}.

17.   Eleven more than a number is 15. What is the number?

18.   Four times a number is 16. What is the number?

19.   A number divided by one is 5. What is the number?

20   One less than twice a number is 9. What is the number?

21.   One more than twice a number is 7. What is the number?

Use the figure and the information below to write an equation involving x.

22.

x / 6

7

Perimeter = 21

23.

x

4   4

x

Perimeter = 28

Write an equation that represents the given information.

24.   The distance traveled in 3 hours of driving was 210 km. (Hourly rate)

25.   A train traveled at 66 km/h for 4 hours. (Distance traveled)

26.   A driver averaged 60 km/h while driving 300 km. (Time)