



# Warm-Up 1

1. \_\_\_\_\_ months



How many months are there in 35 years?

2. \_\_\_\_\_

A function exists of the form  $y = x + a$  that models the data shown. What is the value of  $a$ ?

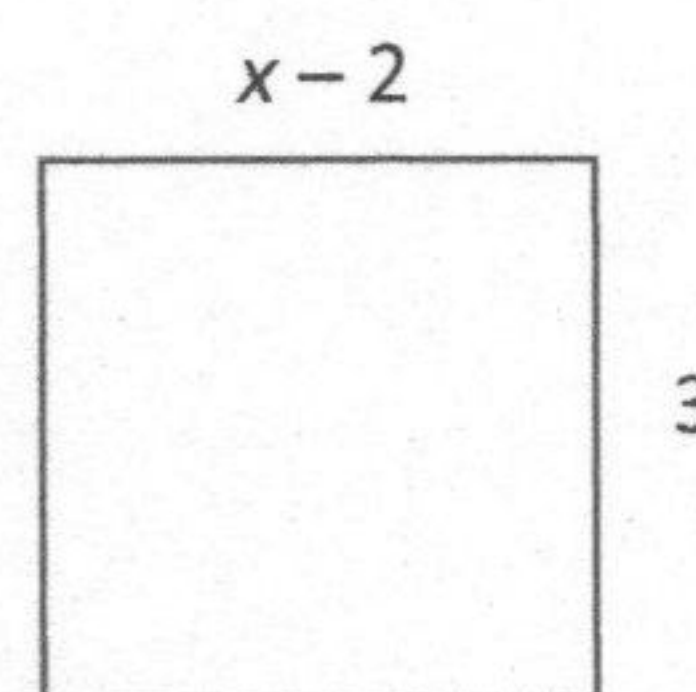
$x$	$y$
2	5
3	6
4	7

3. \_\_\_\_\_ numbers

How many odd numbers are there between 20 and 158?

4. \_\_\_\_\_

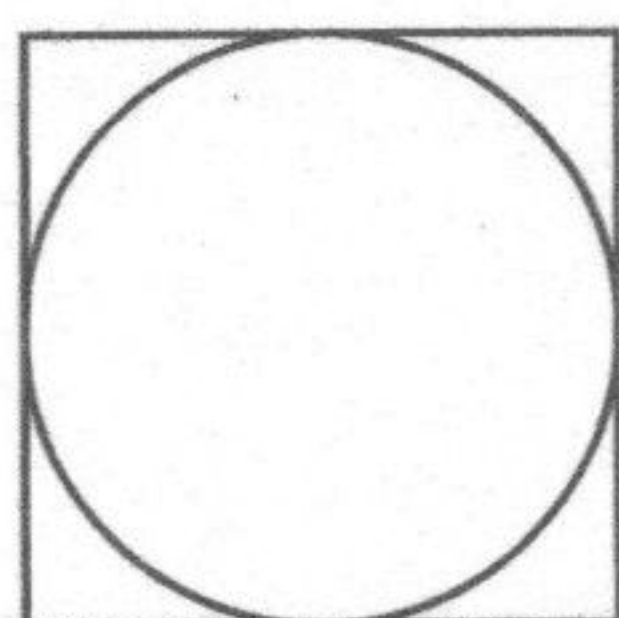
The figure shown is a square. What is the value of  $x$ ?



5. \_\_\_\_\_ grapes

A bowl contains 50 grapes of different colors. If 20% of the grapes in the bowl are red, how many grapes are *not* red?

6. \_\_\_\_\_  $\text{ft}^2$



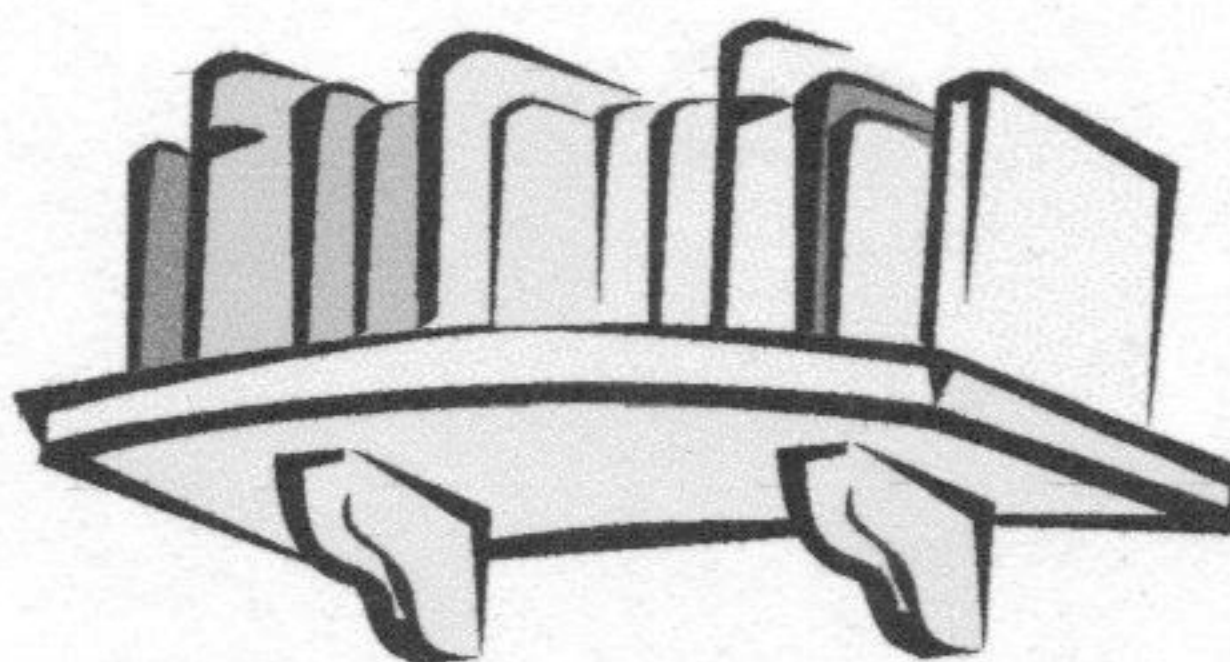
In the figure, a circle with radius 4 ft is inscribed in a square. What is the area of the square?

7. \_\_\_\_\_  $\text{mm}^2$

A triangle with an area of  $120 \text{ mm}^2$  has a height of 10 mm. What is the area of a similar triangle with a height of 20 mm?

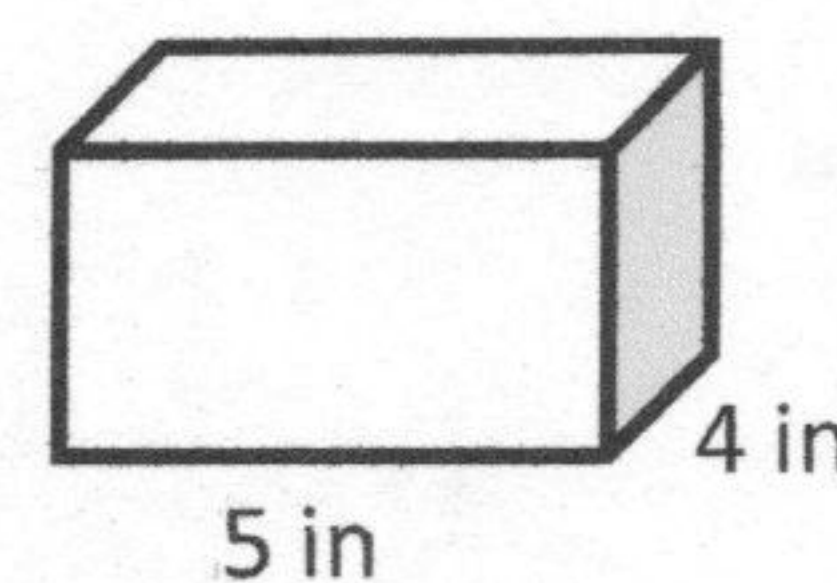
8. \_\_\_\_\_

A bookshelf is to hold 6 literature books, 3 geometry books and 7 algebra books, arranged in random order. What is the probability that the books are arranged so that the first book on the shelf is a math book? Express your answer as a common fraction.



9. \_\_\_\_\_ in

The volume of a rectangular prism is  $120 \text{ in}^3$ . Its length and width are 5 in and 4 in, respectively, as shown. What is the height of the prism?



10. \_\_\_\_\_

What is the greatest prime factor of 96?