

Fractions of Quantities

Finding a Fraction of a Quantity (Number)

A quantity is an amount or number of something. It could be an amount of money, a number of people or a number of objects.

Fractions of quantities are found using two methods.

EXAMPLE: What is 3/4 of 12 marbles?

METHOD 1: Divide & Multiply

(1) Divide the quantity by the denominator

(2) Multiply the answer by the numerator

METHOD 2: Fractions to Decimals (1) Convert the fraction into a decimal

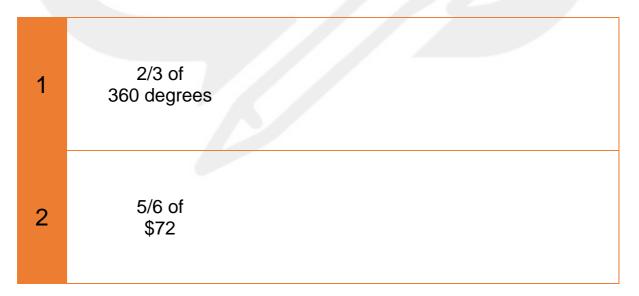
(2) Multiply quantity by the decimal Note: Use this method only if the fraction can easily be converted to a decimal 3/4 = 0.75

 $3 \times 3 = 9$ marbles

 $12 \div 4 = 3$

0.75 × 12 = 9 marbles

Instructions: Find the fractions of the quantities below.







3	7/12 of 132 cookies
4	7/9 of 108 pencils
5	4/7 of 84mL
6	4/5 of 60 bottles
7	3/4 of 48 dogs
8	5/6 of 66 pizza slices





9	7/12 of 108L milk
10	7/8 of 64kg
11	6/7 of 49 degrees
12	5/6 of 42 grams
13	3/8 of \$56
14	4/5 of \$45



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(1) Divide the quantity by the denominator(2) Multiply the answer by the numerator

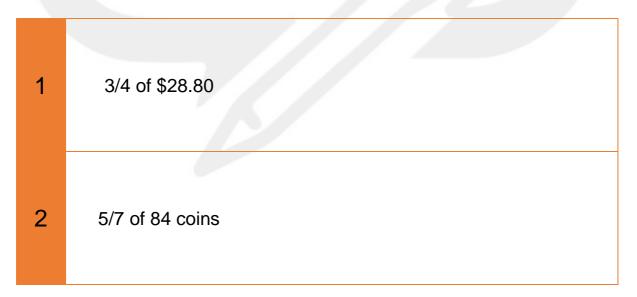
 $12 \div 4 = 3$ 3 × 3 = **9 marbles**

METHOD 2: Fractions to Decimals
(1) Convert the fraction into a decimal
(2) Multiply quantity by the decimal
Note: Use this method only if the fraction

can easily be converted to a decimal

3/4 = 0.75 0.75 × 12 = **9 marbles**

Instructions: Find the fractions of the quantities below.







3	11/12 of 132 pages
4	3/5 of 90 people
5	5/8 of 64 Iollies
6	7/10 of 65.4m
7	3/7 of 49 chairs
8	7/9 of 108 flowers





9	7/12 of \$14.40
10	4/13 of 91 bananas
11	5/14 of 126 bricks
12	7/8 of \$6400
13	4/15 of 300 bags
14	9/19 of \$9.50



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METHOD 1: Divide & Multiply

(1) Divide the quantity by the denominator(2) Multiply the answer by the numerator

 $12 \div 4 = 3$ 3 × 3 = **9 marbles**

METHOD 2: Fractions to Decimals (1) Convert the fraction into a decimal (2) Multiply quantity by the decimal

Note: Use this method only if the fraction can easily be converted to a decimal

3/4 = 0.75 0.75 × 12 = **9 marbles**

Instructions: Find the fractions of the quantities below.





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3	5/13 of 52 players
4	7/9 of \$108
5	6/11 of 1320 plates
6	7/12 of 60 horses
7	5/14 of \$700
8	2/11 of 1320 pens



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9	7/20 of 2400 men
10	8/15 of \$9000
11	14/25 of 2000 people
12	17/20 of \$4.80
13	4/15 of 1200 seats
14	8/21 of 105,000 ants