

Imperial units of mass

Discover

I know 1 ounce is about 28 grams. I wonder how heavy your fruit will be in kilograms.

blueberries by the ounce (oz)

I need to buy 32 ounces of apples and 4 ounces of blueberries.

apples by the pound (lb)

1 pound = 16 ounces
1 ounce = approx. 28 g

Andy

Alex

- 1 a) How many pounds of each type of fruit should Alex ask for?
b) What will the total of Alex's fruit weigh in kilograms?

Share

a)

Pounds and ounces are imperial measures of mass. 1 pound (lb) equals 16 ounces (oz).

32 oz	
16 oz	16 oz
1 lb	1 lb

$32 \div 16 = 2$
 $32 \text{ oz} = 2 \text{ lb}$

Alex should ask for 2 pounds of apples.

16 oz	
4 oz	4 oz
4 oz	4 oz

$1 \div 4 =$

1 lb	
$\frac{1}{4}$ lb	$\frac{1}{4}$ lb
$\frac{1}{4}$ lb	$\frac{1}{4}$ lb

$4 \text{ oz} = \frac{1}{4} \text{ lb}$

Alex should ask for $\frac{1}{4}$ of a pound of blueberries.

I am going to see how many lots of 4 oz are in 16 oz to help with the second amount.

b) $32 + 4 = 36$

Alex's fruit will weigh 36 oz altogether.

I know that 1 oz is about 28 g. First I am going to use long multiplication to convert into grams.

36	28
30	600
6	120

$600 + 240 + 120 + 48 = 1,008$

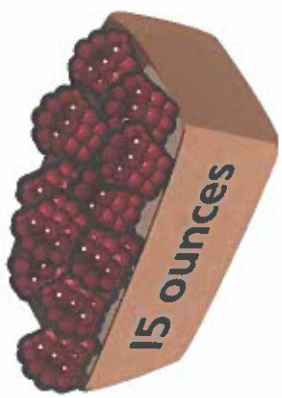
$36 \times 28 = 1,008$

$1,008 \div 1,000 = 1.008$

Alex's fruit will weigh about 1.008 kg.

Think together

1 How many grams of raspberries are there in one container?



15 oz											
28 g	28 g	28 g	28 g	28 g	28 g	28 g	28 g	28 g	28 g	28 g	28 g

$28 \times 15 =$
The raspberries weigh about g.

2 a) There are 16 ounces in 1 pound.

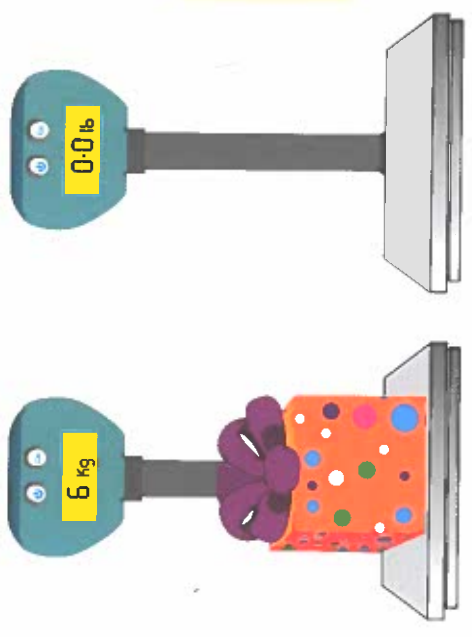
1 lb															
20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

Work out the number of ounces in these amounts.

$4 \text{ lb} =$ $\times$ $=$ oz
 $10 \text{ lb} =$ $\times$ $=$ oz
 $\frac{1}{2} \text{ lb} =$ $\div$ $=$ oz

b) Describe how you would find out what $\frac{3}{4}$ lb weighs in ounces.

3 a) Amelia is weighing a gift.

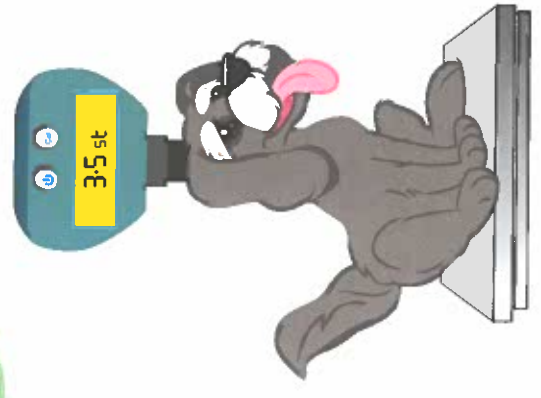


1 lb is approximately 450 g.
1 kg is approximately 2.2 lb.

What will the second set of scales show if Amelia weighs the gift using them?

I think I need to multiply 450 by 6 to find the answer.

I do not think that is right. I think you need to multiply 2.2 by 6 instead.



1 stone (st) = 14 lb

b) How many pounds does the dog weigh?

Estimate the number of kilograms that the dog weighs.